



2019 FUTURE LEADERS  
DEVELOPMENT  
CONFERENCE RESUME  
BOOK

# Table of Contents

First Name	Last Name	University	Page
Pedro	Adorno	University of Florida	1
Lorena	Bernal-Vidal	San Jose State University	3
Alexandra	Boggs	University of Tennessee	5
Beau	Burdett	University of Wisconsin - Madison	7
Shannon	Engstrom	University of Minnesota	9
Bonnie	Fan	Carnegie Mellon University	11
April	Gadsby	Georgia Institute of Technology	12
Gabriela	Giron	University of Washington	14
Krishna Murthy	Gurumurthy	The University of Texas at Austin	16
Jeremy	Halpern	University of California, Berkeley	17
Dylan	Horne	Oregon State University	20
De'Von	Jennings	UC Irvine	22
Jessica	Lazarus	University of California, Berkeley	24
Emma	Lucken	University of California, Berkeley	26
Nicole	McGrath	The University of Texas at Austin	28
Christopher	Oster	University of Delaware	30
Corrie	Parrish	University of Oregon	32
Erin	Robartes	University of Virginia	34
Peter	Smet	Cornell University	36
Elizabeth	Zurek	Embry Riddle World Wide	37

# Pedro F. Adorno Maldonado

288 Corry Village, Apartment #18, Gainesville, FL 32603

Mobile: (787) 662-7050 | Email: pedro.adorno1@ufl.edu

---

## OBJECTIVE

---

To participate in conferences that allows me to acquire new knowledge, skills, and experience in the field of transportation engineering while sharing the knowledge I have acquired with peers and professionals.

## EDUCATION

---

- **Ph.D. Candidate, Transportation Engineering - GPA: 3.94/4.0** **December 2019**  
Dissertation Title: The Effects of Advanced Communication Technologies in Driver's Behavior  
Advisor: Dr. Sivaramakrishnan (Siva) Srinivasan  
Certificates: Engineering Entrepreneurship & Engineering Leadership  
University of Florida (UF)
- **Bachelor of Science in Civil Engineering - GPA: 3.39/4.0** **December 2015**  
Certificate: Project Management  
University of Puerto Rico at Mayagüez (UPRM)  
Cum Laude

## TEACHING EXPERIENCE

- **Graduate Research Assistant** **August 2016 - Present**  
*Engineering School of Sustainable Infrastructure and Environment, UF*
  - Assist Dr. Siva Srinivasan with academic research, manuscripts, and publications related to traffic safety.
  - Provide on-time deliverables related to in-vehicle technologies and automated vehicles to private and public partner agencies.
  - Represent the University of Florida (UF) in professional conferences and recruiting events to promote the Transportation Engineering program among college students and professionals.

## PROFESSIONAL EXPERIENCE

---

- **Laansu Incorporated** **October 2018 - Present**  
*Research Analyst*
  - Compile a database of the Advanced Driver Assistance Systems (ADAS) available by vehicle brands in the U.S.
  - Follow the National Highway Traffic Safety Administration (NHTSA) Product Information Catalog and Vehicle Listing (vPIC) structure to consolidate vehicle specifications as provided by the car manufacturers in the VIN Requirement form (CFR Part 566).
- **The Washington Center (TWC)** **June 2018 - August 2018**  
*Data Analysis Specialist Intern | National Highway Traffic Safety Administration, Washington, D.C.*
  - Contracted with the Department of Transportation under their office of Safety Systems Management Division.
  - Coded the Advanced Driver Assistance Systems (ADAS) of all vehicle brands in the U.S. into NHTSA Product Information Catalog and Vehicle Listing (vPIC) by trim and/or series.
  - Processed the Manufacturer Identification (49 CFR Part 566) documents and VIN Requirements (49 CFR Part 565) of foreign and local manufacturers.
  - Processed the state of California Department of Motor Vehicles Traffic Collisions involving autonomous vehicles into NHTSA's Automated Driving System (ADS) Tracking Database including map coordinates of and detailed information of each incident.
- **American Automobile Association (AAA)** **June 2017 - August 2017**  
*Traffic Research Group, Intern II | AAA Foundation for Traffic Safety, Washington, D.C.*
  - Conducted advanced research related to the Advanced Driver Assistance System (ADAS) in vehicle models from 2010-2015.
  - Used statistical software (STATA) to create crosstabulations and graphical representations of patterns and relationship within variables related to ADAS technologies in crashes involving young drivers (16-20 years old).

- Collaborated in the data analysis of the Long ROAD study (focused in older drivers 65 years and older) by identifying trends and driving behaviors by demographics in the U.S.

## RESEARCH EXPERIENCE

---

- **I-STREET Initiative - Intelligent School Zone Systems** **August 2016 - Present**  
*Supervisor: Dr. Eakta Jain, Assistant Professor | University of Florida*
  - Develop the experimental design and study protocol in compliance with the Institutional Review Board (IRB) requirements.
  - Manage the insurance policy of the UF Transportation Institute to cover the study participants from potential risks and liabilities.
  - Collaborate with the research team in the data analysis process to find trends and factors that can help improve the safety in our local schools.
- **Autonomous and Connected Transit Systems** **August 2016 - Present**  
*Supervisor: Dr. Sivaramakrishnan (Siva) Srinivasan, Associate Professor | University of Florida*
  - Conduct literature review of the existing automated transit technologies in the U.S.
  - Study state-of-the-art technology of automated vehicles and their future implementation in the transit systems.
  - Conduct a report for the Jacksonville Transportation Authority (JTA) of the social impacts of implementing automated transit system in Jacksonville, FL.
  - Collaborate with the University of Florida Transportation Institute (UFTI) research team creating, distributing, and analyzing the results of perception surveys designed to understand agencies' and people's preparedness to new transportation technologies.

## TECHNICAL / NON-TECHNICAL SKILLS

---

- CORSIM, TRANSYT 7F, Synchro, HCS 2010
- Minitab, STATA, SPSS
- Basic knowledge of AutoCAD Civil 3D
- Basic knowledge of ESRI ArcGIS
- Basic knowledge of Python
- Bilingual - English and Spanish
- Teamwork, Leadership, Creative, Self-Started, Excellent Comprehension and Retention

## VOLUNTEER EXPERIENCE

---

- **Search Committee Member** **April 2018 - Present**  
*University of Florida | College of Engineering*
  - Assist in the selection of prospective candidates for the first Director of Inclusion for the College of Engineering at the University of Florida.
  - Represent the students' best interest during the committee meetings and interviews with potential candidates.
  - Define the expectations for the role of Director of Inclusion from a student perspective.
- **President of the Institute of Transportation Engineers (ITE)** **April 2017 - May 2018**  
*University of Florida | Gator ITE Student Chapter*
  - Developed the ITE student chapter by recruiting new officers and members, creating a new brand (name and logo), establishing official roles, and building trust among the team members. Manage and directed the chapter with commitment and enthusiasm, exceeding District 10 expectations and obtaining the "Chapter of the Year (2018)" award.
- **Captain of ASCE Southeast Community Service Competition** **December 2015 - March 2016**  
*University of Puerto Rico at Mayagüez | ASCE Student Chapter*
  - Performed engineering duties in planning, designing, financing, and overseeing the rehabilitation of the playground area of the children's orphanage "Jesus of Nazareth" in Mayagüez, Puerto Rico. Manage and directed the service team, obtaining the second place at the ASCE Southeast Community Service Competition in Tuscaloosa, Alabama.

## AFFILIATIONS

---

- UF Student Chapter Women's Transportation Seminar (WTS), Secretary **August 2018 - Present**
- Alpha Epsilon Lambda Honor Society, Webmaster **February 2017 - Present**
- UF Student Chapter Institute of Transportation Engineers (ITE), Member **June 2016 - Present**
  - President **April 2017 - May 2018**



## **LORENA BERNAL-VIDAL**

TRANSPORTATION PLANNER III  
MSTM DEGREE, SPRING 2019

### **OBJECTIVE**

To promote mobility management of public transportation systems by maximizing cooperation, project delivery, efficiency, and financial resources

### **CONTACT INFORMATION**

T 408-789-7402

E [Lorena.BernalVidal@gmail.com](mailto:Lorena.BernalVidal@gmail.com)

### **LEADERSHIP**

2019 – Successful completion of VTA’s Leadership Academy

2013-2016 VTA Employee Advisory Committee Chairperson

2015-2018 California State PTA Executive Board Member

2015 Contract Negotiator for SEIU Bargaining Union

### **SKILLS AND ABILITIES**

Technical Spanish Translator

### **MEMBERSHIPS**

2014-Present WTS Member

---

Experienced Transportation Planner with an outstanding record of transit service improvements and project delivery in the transportation and congestion management industries

---

## **PROFESSIONAL EXPERIENCE**

### **TRANSPORTATION PLANNER III**

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY  
SAN JOSE, CA

#### **Programming and Planning Development**

#### **September 2012-Present**

Apply, oversee and manage approximately \$250 million dollars in federal and state grant funds annually.

- Specialize in project budgeting, grant management, and programming activities.
- Develop planning reports, financial forecasts, and inter-agency agreements.
- Create memoranda and reports for presentation to Board of Directors’, Commissions, Committees, and Regional Finance and Transportation Policy Working Groups.

### **AUGUST 1999-AUGUST 2012**

Performed analyst, executive assistant, and administrative roles for multiple divisions within the agency, including:

#### **Executive Suite (August 2011-August 2012)**

- Conducted project research for the General Manager.
- Administered service and professional contracts.
- Developed departmental Budgets and Cost Trend Reports.

#### **Marketing (January 2009-July 2011)**

- Coordinated annual Marketing Plans for strategic public stakeholder communication.
- Supported Limited English Proficient community members through Spanish interpretation and transcription.

## 2 LORENA BERNAL-VIDAL

### Government Affairs (August 2006-December 2008)

- Monitored and updated Assembly and Senate daily files and tracked transit bills during the legislative cycle.
- Promoted Santa Clara County's surface transportation goals through engagement with local, state, and federal elected officials and other legislative and political organizations.

### Congestion Management Agency (September 2004- July 2006)

- Supported various Policy Advisory Boards, including: VTA's BART Extension, Warm Springs Extension and Downtown East Valley.
- Developed transportation and land use integration studies for transit redesign, corridor improvements, community design and bicycle and pedestrian plans.

### Operations (August 1999- August 2004)

- Developed budgets and general operating reports for 15 bus maintenance and transit operations departments
- Streamlined maintenance and major repair scheduling processes in SAP to improve parts allocation and production in seven Overhaul and Repair shops
- Processed timekeeping for 92 employees in ATU, SEIU and AFSCME bargaining unions

## HONORS AND AWARDS

JANUARY 2019 - U.S. Department of Transportation

Council of University Transportation Centers (CUTC) Outstanding Student of the Year Recipient

JANUARY 2018 –Present

Phi Kappa Phi National Honor Society

## POLICY DEVELOPMENT INTERESTS

- Transportation policy modernization
- Process improvements and project selection
- Development of multi-modal transportation networks
- Intelligent technology development and integration

## EDUCATION

**MASTERS OF SCIENCE IN TRANSPORTATION MANAGEMENT** – Exp. Graduation Spring 2019

SAN JOSE STATE UNIVERSITY

4.0 GPA

**MANAGEMENT CERTIFICATE IN HIGH SPEED RAIL MANAGEMENT** - 2018

SAN JOSE STATE UNIVERSITY

**BACHELOR OF ARTS IN POLITICAL SCIENCE** – 2001

SPANISH MINOR

SAN JOSE STATE UNIVERSITY

# Alexandra Marie Boggs

311I John D. Tickle Building  
851 Neyland Drive  
Knoxville, TN 37996  
(813) 478 - 5046  
[aboggs6@vols.utk.edu](mailto:aboggs6@vols.utk.edu)

---

## Education

**University of Tennessee, Knoxville, TN** Expected December 2019

- Doctor of Philosophy in Transportation Engineering, GPA 3.96

**University of Tennessee, Knoxville, TN** Expected December 2019

- Master of Science in Statistics, GPA 4.00

**Florida Institute of Technology, Melbourne, FL** May 2015

- Master of Science in Civil Engineering, *Fast Track Program*, GPA 4.0

*Thesis: Correlating PENCEL Pressuremeter and Dynamic Cone Penetrometer Data for Unbound Layers in Pavement Design*

**Florida Institute of Technology, Melbourne, FL** May 2013

- Bachelor of Science in Civil Engineering with Minor in Sustainability, *cum laude*, GPA 3.57
- 

## Experience

**University of Tennessee, Knoxville, TN** – August 2015-present

*Graduate Teaching Assistant and Graduate Research Assistant*

- Assisted professor in undergraduate and graduate teaching - CE 205: Professional Development, CE 210: Geomatics Lab, CE 355: Transportation Engineering I, CE 455: Transportation Engineering II, and CE 653: Intelligent Transportation System
- Pioneered and executed the development of a week-long camp for rising 8<sup>th</sup> and 9<sup>th</sup> graders on accident reconstruction called CSI: Crash Scene Investigation
- Orchestrated the weekly transportation seminar series (Fall 2017 & 2018) ([link](#)) by contacting distinguished speakers, requesting webcasting, scheduling travel and room usage, and creating and disseminating flyers
- Examined automated vehicle crashes and disengagements in California to grasp a thorough understanding of automated vehicles safety
- Inventoried Tennessee's commercial motor vehicle parking facilities utilization rates during peak off-hours and its relationship with ramp crashes

**National Transportation Safety Board, Washington, DC**– May 2018-August 2018

*Engineering Student Trainee in Office of Highway Safety*

- Assisted in the report development of Uber automated test vehicle and fatal pedestrian crash investigation in Tempe, Arizona
  - Assembled and analyzed automated vehicles federal and state policies, testing facilities, and applicable Federal Motor Vehicle Safety Standards (FMVSS)
  - Supported in crash investigations of Fort Lauderdale, Florida; Concan, Texas; and Biloxi, Mississippi
  - Reported and presented findings to the Office of Highway Safety
- 

## Selected Funded Projects

### Project Title

1. Development of a CSI: Crash Scene Investigation Camp
2. Connected & Autonomous Vehicles for Safety Monitoring, Assessment, Improvement, and Use of Big Data
3. Truck Parking on Ramps in Tennessee (2015-2018),

### Sponsoring Agency

- US DOT: Collaborative Sciences Center for Road Safety
- US DOT: Southeastern Transportation Center and Collaborative Sciences Center for Road Safety
- US DOT: Southeastern Transportation Center
- 

## Papers in Review for Publication

1. **Boggs, A.**, Khattak, A., Wali, B. Analysis of Automated Vehicle Crashes and Roadway Attributes in California: Application of Fixed and Random Parameter Bayesian Binary Logit Models. (Under-review)
2. **Boggs, A.**, Mohamadi, A., Cherry, C.R. Shortage of Commercial Vehicle Parking and Truck-Related Interstate Ramp Crashes in Tennessee. Transportation Research Record: Journal of the Transportation Research Board (Under 2<sup>nd</sup> review).

3. Shay, E., Khattak, A., **Boggs, A.** Safety in the Connected and Automated Vehicle Era: A U.S. Perspective on Research Needs. *Journal of Intelligent Transportation Systems* (Under-review)

---

### Peer-Reviewed Conference Papers

1. **Boggs, A.**, Mohamadi, A., Cherry, C.R. Shortage of Commercial Vehicle Parking and Truck-Related Interstate Ramp Crashes in Tennessee. *Accepted for Presentation at 98<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington DC, USA. TRB PAPER # 19-03381*
2. **Boggs, A.**, Khattak, A., Wali, B. Analyzing Automated Vehicle Crashes in California: Application of a Bayesian Binary Logit Model. *Accepted for Presentation at 98<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington DC, USA. TRB PAPER # 19-05567*
3. Shay, E., Khattak, A., **Boggs, A.** Safety in the Connected and Automated Vehicle Era: A U.S. Perspective on Research Needs. *Accepted for Presentation at 98<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington DC, USA. TRB PAPER # 19-01423*
4. Cosentino, P., Shaban, A., **Boggs, A.** Predicting Bearing Ratios of Granular Soils Using Dynamic Cone Penetrometer and Modified PENCEL Pressuremeter Tests. *Innovations in Geotechnical Engineering*. 68-86. 2018.
5. **Boggs, A.**, Cherry, C., Franceschetti, N., Ling, Z., Nambisan, S. Truck Parking Facilities and Ramp Parking: Role of Supply, Demand, and Ramp Characteristics. *Accepted for Presentation at 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, DC, USA. TRB PAPER # 17-06604*
6. Denis, A. **Boggs, A.**, Jensen, M. Undecided Engineers: A First Year General Engineering Program. 2014 American Society for Engineering Education Southeast Section Conference.

---

### Selected Invited Presentations

1. Shortage of Commercial Vehicle Parking and Truck-Related Interstate Ramp Crashes in Tennessee, Transportation Research Board 98<sup>th</sup> Annual Meeting. Washington, DC. January 15, 2019.
2. Analyzing Automated Vehicle Crashes in California: Application of a Bayesian Binary Logit Model, Transportation Research Board 98<sup>th</sup> Annual Meeting. Washington, DC. January 14, 2019.
3. Safety in the Connected and Automated Vehicle Era: A U.S. Perspective on Research Needs. Transportation Research Board 98<sup>th</sup> Annual Meeting. Washington, DC. January 14, 2019.
4. Truck Parking Facilities and Ramp Parking: Role of Supply, Demand, and Ramp Characteristics. Transportation Research Board. Washington, DC. January 10, 2017.

---

### Selected Scholastic Honors

- University of Tennessee Chancellor's Fellowship 2015-2019
- US Department of Transportation National University Transportation Center for Safety - Collaborative Sciences Center for Road Safety - Student of the Year 2018
- American Road and Transportation Builders Association (ARTBA) Future Industry Leader Spotlight Award 2018
- Women's Transportation Seminar (WTS) Central Virginia Legacy Scholarship 2018
- Lifesavers National Conference Traffic Safety Scholarship 2017-2018
- Southern District Institute of Transportation Engineers (SDITE) Annual Best Student Paper Competition – First Place 2018

---

### Selected Professional Membership

- University of Tennessee Graduate Student Senate 2018-2019  
Senator of Civil and Environmental Engineering Department
- University of Tennessee Institute of Transportation Engineers Student Chapter  
President 2017-2018  
Vice-President 2015-2017
- University of Tennessee Women's Transportation Seminar  
Co-Founder and President 2017-2018

---

### Community Outreach

Crash Scene Investigation (CSI) Camp, WomEngineers Day, Engineers Day, University of Tennessee STEmpunk Fair, Summer Transportation Academy for Teachers (STAT), Seatbelt Convincer, Transit Day



# Beau Burdett

411 W. Wilson Street, Apt. #B · Madison, WI 53703  
(309)397-4897 · bburdett@wisc.edu

---

## Education

<b>Ph.D. Candidate</b> , Civil Engineering	University of Wisconsin, Madison, WI	<b>Expected 2020</b>
<b>MS</b> , Civil Engineering	University of Wisconsin, Madison, WI	<b>2014</b>
Thesis: <i>Improving Accuracy of KABCO Injury Severity Assessment by Law Enforcement</i>		
<b>BS</b> , Civil Engineering	Bradley University, Peoria, IL	<b>2013</b>

---

## Research Experience

**University of Wisconsin Madison** **Fall 2013-Present**

Research Assistant, Traffic Operations and Safety (TOPS) Lab

- Comprehensive Parking Plan of Horicon, Wisconsin
- Evaluation of Roundabout Crashes at Ramp Terminals
- Evaluation of Pavement Markings at Roundabout Approaches Using a Full Scale Driving Simulator
- Evaluation of Roundabout Related Single-Vehicle Crashes
- Roundabout Safety Evaluation: Phase 3
- Development of new MV4000 Crash Report Form
- Analysis of Rear-End Crashes at Roundabout Approaches
- Accuracy of Injury Severity Ratings on Police Crash Reports

### Bradley University

**Spring 2011-Spring 2013**

Undergraduate Researcher

- Evaluation of Flashing Yellow Arrows for Protected/Permissive Left Turn Control
- Effects of Intersection Right-Turn Island Design and Skew on Safety & Operations

---

## Teaching Experience

### University of Wisconsin Madison

Teaching Assistant, Introduction to Transportation Engineering (CEE 370) **SP '16, FA '16, FA '17, FA '18**

- Assisted instructor in developing and presenting course materials to 70 students

Lab Instructor, Traffic Control (CEE 574)

**Fall 2015**

- Conducted weekly two hour graduate level lab with 15 students

---

## Publications

### Peer-Reviewed Journals

**Burdett, B.,** A. R. Bill, D. A. Noyce. Evaluation of Roundabout-Related Single-Vehicle Crashes. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2637, Transportation Research Board of the National Academies, Washington, D.C., 2017, pp. 17-26.

**Burdett, B.,** I. Alshgan, L. Chiu, A. R. Bill, D. A. Noyce. Analysis of Rear-End Crashes at Roundabout Approaches. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2585, Transportation Research Board of the National Academies, Washington, D.C., 2016, pp. 29-38.

**Burdett, B.,** Z. Li, A. R. Bill, and D. A. Noyce. Accuracy of Injury Severity Ratings on Police Crash Reports. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2516, Transportation Research Board of the National Academies, Washington, D.C., 2015, pp. 58-67.

Schattler, K. L., C. J. Gulla, T. J. Wallenfang, **B. Burdett**, J. A. Lund. Safety Effects of Traffic Signing for Left Turn Flashing Yellow Arrow Signals. *Accident Analysis and Prevention*, Vol. 75, 2014, pp. 252-63.

## Conference Proceedings

**Burdett, B.**, I. Alshgan, M. Chitturi, A. R. Bill, D. A. Noyce. Investigating Driver Yielding Behavior at Roundabout Approaches. In *Proceedings of the 97<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2018.

**Burdett, B.**, Z. Li, A. R. Bill, and D. A. Noyce. Improved Injury Severity Estimation Based on Logistic Regression Modeling. In *Proceedings of the 95<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

Silber, H., **B. Burdett**, A. R. Bill, and D. A. Noyce. Shared-Use Path Intersection Control Compliance. In *Proceedings of the 95<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

Schattler, K.L., J.A. Lund, W. B. Lorton III, & **B. Burdett**. Effects of Flashing Yellow Arrow Signal Displays on Driver Comprehension and Operations. In *Proceedings of the 92<sup>nd</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2013.

## Reports

**Burdett, B.**, Z. Li, A. R. Bill, and D. A. Noyce. "Guide on Accurate Assessment of KABCO Crash Severity Levels for Law Enforcement Officers." Traffic Operations and Safety (TOPS) Laboratory, University of Wisconsin – Madison, 2014.

## Honors and Awards

---

- Dwight D. Eisenhower Transportation Fellow (USDOT FHWA) **2019**
  - Annual national award to graduate students pursuing degree in transportation-related disciplines
- Wisconsin ITE Harvey Shebesta Scholarship **2018**
  - Annual award to recognize one Wisconsin student with a career emphasis in Transportation

## Campus Governance

---

### University of Wisconsin Madison

- Student Council (Graduate School Representative) **May 2016-May 2017**
  - Voting member representing graduate students, oversee allocation of \$48 million in student fees
- Campus Transportation Committee **August 2015-May 2018**
  - Voting member representing 40,000 students on campus, advise administration on policy issues
- Student Transportation Board **August 2015-May 2018**
  - Voting member representing the student interests, negotiated bus contract worth \$900,000

## Professional Service

---

- Transportation Research Board, National Academy of Sciences
  - Friend, Committee on Roundabouts **2015-Present**
  - Friend, Committee on Alcohol, Other Drugs, and Transportation **2017-Present**
  - Friend, Committee on Traffic Law Enforcement **2018-Present**
- Institute of Transportation Engineers (UW Madison Student Chapter) **2013-Present**
  - Vice President (2015-2018)
  - President (2018-Present)
- American Society of Civil Engineers **2017-Present**

# Shannon Evans Engstrom

---

317 8th St SE  
Minneapolis, MN

952.237.8131  
engstrom@umn.edu  
linkedin.com/in/shannonengstrom

---

## Education

**Humphrey School of Public Affairs - University of Minnesota /**  
Master of Urban & Regional Planning, Transportation Concentration  
2018 - PRESENT

Relevant coursework: Transportation, Land Use and Design; Intro to Planning; Land Use Planning for CAVs; GIS for Policy Analysis; Law and Urban Land Use.

**Prime Digital Academy /** Software Engineering Certification  
SUMMER 2018

Created apps to calculate transportation carbon emissions & improve local food delivery

**University of Minnesota /** B.S. Urban Studies, minor in Sociology  
2010 - 2014

- **Higher Education Consortium for Urban Affairs (HECUA) /** SPRING 2013  
Studied politics/policies of empowerment and inequality in the U.S.
- **International Honors Program (IHP) /** FALL 2012  
Comparative urban planning research program in New Orleans, U.S.A.; Curitiba & São Paulo, Brazil; Cape Town, South Africa; Hanoi, Vietnam

---

## Relevant Experience

---

**Urban Studies Department /** Teaching Assistant  
2019 - PRESENT, University of Minnesota

Advise and grade 25 undergrad senior capstone papers on topics ranging from transportation to sustainability.

**Accessibility Observatory /** Graduate Research Assistant  
2018 - Present, University of Minnesota

Calculate and analyze accessibility to destinations, a metric for urban and economic development and evaluation. Synthesize data and produce reports for public agencies including MnDOT and Met Council.

**Center for Transportation Studies /** Program Coordinator  
2017 - 2018

Assisted Center leadership with developing and monitoring project scopes, schedules, deliverables, budgets, and activity monitoring/program evaluation. Supervised student employees and collaborated with colleagues to successfully deliver engaging educational activities for transportation students and practitioners.

**Civios.umn.edu /** Project Manager  
2015 - 2017, Humphrey School of Public Affairs - University of Minnesota

Developed Civios (civios.umn.edu), a multimedia platform (podcasts, videos, etc.) designed to share Humphrey School research with public affairs practitioners. Collaborated with faculty and consultants to author digital learning materials from an instructional design and adult learning perspective.

---

**Professional  
Development &  
Volunteer  
Experience**

---

**American Planning Association, MN Chapter / Student Representative**  
2018 – Present

**Women’s Transportation Seminar (WTS), MN Chapter / Member**  
2018 – Present

**Humphrey School Executive Council / Civil Service Member**  
2015 – 2017, University of Minnesota

**University of Minnesota Campus Climate Engagement Team / Member**  
2015 – 2016

**University of Minnesota Senate / Student Senator**  
2013 – 2014

**The Aurora Center for Education & Engagement / Sexual Violence Advocate**  
2011 – 2014, University of Minnesota

---

**Other Experience**

---

**Public & Nonprofit Leadership Center / Program Associate**  
2014 – 2017, Humphrey School of Public Affairs – University of Minnesota

Assisted with redesign and baseline evaluation of the Minnesota Family Investment Program (MFIP), Minnesota’s family social welfare program. Produced statewide system process map. Used design thinking tools to begin development of MN’s first welfare app (mfipconnect.com).

**Public & Nonprofit Leadership Center / Research Assistant**  
2013 – 2014, Humphrey School of Public Affairs – University of Minnesota

**Beacon Housing Collaborative / Public Policy Intern**  
SPRING 2013, St. Paul, MN

**Dept. of Industrial/Organizational Psychology / Assistant to the Director of Graduate Studies**  
2012 – 2013, University of Minnesota

---

**Skills**

---

**Coding** / HTML, CSS, JavaScript, Python, Pandas, React, React Redux, React Saga, AngularJS, jQuery, Node.js, Express, Git, Github

**Data Analysis** / Stata, Pandas

**Databases** / AWS, MongoDB, PostgreSQL

**Design** / Design Thinking courses & professional experience; Adobe Illustrator, InDesign, Photoshop

**Engagement** / Art of Hosting (a leadership & system change framework) training and professional experience; public speaking

**GIS** / ArcMap, QGIS

# Bonnie Fan | Resumé

7227 Penn Ave 2B – Pittsburgh, PA 15208

+1 (970) 232 6820 • [✉ bonnie.y.fan@gmail.com](mailto:bonnie.y.fan@gmail.com)

## Education and Honors

---

### Carnegie Mellon University

*Masters in Public Policy and Management - Data Analytics*

Pittsburgh, PA

2018–2020

- Traffic21 Transportation Research Institute's Women in Transportation Fellow

### Beyond Uptake

*Data Fellow*

Chicago, IL

Feb 2017–Aug 2017

- Selected as 1 of 12 data fellows chosen from 135 international applicants of social sector analytics professionals

### University of Chicago

*Bachelors of Arts With Honors in Economics*

Chicago, IL

2010–2014

## Experience

---

### City of Pittsburgh Department of Mobility and Infrastructure

*Intern, Special Projects*

Pittsburgh, PA

Nov 2018–Present

Evaluate internal transportation projects and policy processes and identify improvements for newly formed department

### Chicago Transit Authority - Performance Management

*Data Scientist*

Chicago, IL

Oct 2017–July 2018

Built, managed and deployed new predictive analytics and web application tools

- Built and managed next-day predictions of operator absences
- Designed and deployed real-time train and personnel management Python/Javascript web application

*Senior Analyst*

Jul 2016–Oct 2017

- Reduced costs by an estimated \$400k/mon by developing a manager report on modeled spatiotemporal data

*Analyst*

Jul 2014–Jul 2016

- Facilitated agency-wide the compilation of 500 standard incident codes for incident management and analysis

### University of Chicago - IT Services

*STATA Tech Consultant*

Chicago, IL

Feb 2014–Jun 2014

Led workshops covering data management, and provided one-on-one STATA support consultations

### Built in Chicago, Built in Colorado

*Writer*

Chicago, IL

Jan 2014–Jun 2014

Covered the startup scene, focusing on business direction, funding plans, and prospects in the tech sector

### Performics

*Search Strategy Intern*

Chicago, IL

Jun 2013–Aug 2013

Created report on changes in digital consumer patterns and global best practices on online marketing strategies

## Skills

---

**Databases:** Oracle PL/SQL, MS SQL Server, Amazon Redshift, Filemaker Pro, MS Access

**Analytics:** R, Python, STATA

**Web:** HTML, CSS, Django, Flask, Shiny

**Visualization:** Tableau, Leaflet, Power BI, LaTeX, MS Office Suite, Photoshop

# April Gadsby

(805) 722-5758 agadsby3@gatech.edu

## Education

---

### Georgia Institute of Technology, Atlanta, GA

Ph.D. Civil Engineering

- Focus: Transportation Systems Engineering

M.S. Civil Engineering *December 2017*

- Focus: Transportation Systems Engineering

B.S. Civil Engineering *May 2016*

- Overall GPA: 3.98/4.00

## Work Experience

---

### Ph.D. Research Georgia Institute of Technology, Atlanta, GA

January 2018 – Current

- Analyzing environmental causes of cyclist discomfort and stress using an instrumented bike
- Focusing on 3 sensor types: eye tracking, pavement condition, and air quality

### M.S. Research Georgia Institute of Technology, Atlanta, GA

May 2016 – December 2017

- Thesis: *A Sustainable and Cost-Effective Pavement Preservation Method: Micro-Milling and Thin Overlay, Performance Studies with 3D Sensing*
- Assessed the sustainability of micro-milling and thin overlay
- Refined a quality control measure for micro-milling and thin overlay
- Recommended improvements for pavement condition measurement using smartphone accelerometers.
- Collaborated with the Georgia DOT on various projects involving sustainable pavement condition assessment.

### Undergraduate Research Georgia Institute of Technology, Atlanta, GA

January 2015 – May 2016

- Collaborated with the Georgia DOT on various projects involving sustainable pavement condition assessment.
- Performed life cycle assessments and life cycle costs analyses for pavement maintenance techniques.
- Collected and analyzed 3D sensing data for pavement condition assessment.

### Engineering Technician Penfield & Smith, Camarillo, CA

April 2014 – August 2014

- Assisted the land development department with drafting in AutoCAD/Civil 3D, feasibility studies, and calculations for water and wastewater systems

### Engineering Intern City of Goleta, Goleta, CA

June 2013 – August 2013

- Assisted Principal Civil Engineer in management and engineering tasks including oversight of construction work, budget organization and analysis, and issuance of permits and public notices.

## Teaching Experience

---

### Georgia Institute of Technology

Facilitator *Grand Challenges Program*

Fall 2018-Spring 2019

- Oversee a team working to develop a solution to a societal grand challenge
- Guide the team in team management and team health, communication, and research skills

Teaching Assistant *Sustainable Transportation Abroad*

Spring 2018, Spring 2019

- Oversaw the final project, a design submitted to the Ted Turner Drive Challenge held by the City of Atlanta
- Assisted during the week-long study abroad portion to The Netherlands

# April Gadsby

(805) 722-5758 agadsby3@gatech.edu

Teaching Assistant *Civil Engineering Systems*

Fall 2017

- Wrote and graded homework and exams
- Assisted students with the final project and other course material
- Taught 2 classes

## *Major Awards*

---

- NSF Graduate Research Fellowship (Fall 2017-2021)
- IIE - Graduate International Research Experiences Program (2019)
- Dwight D. Eisenhower Graduate Research Fellowship (Fall 2016-2017)
- Sigma Xi Best Undergraduate Research Award (Spring 2016)
- Helen Grenga Outstanding Woman Engineer Award (Spring 2016)

## *Leadership*

---

- American Society for Engineering Education
  - President (Summer 2018-current)
  - Vice President (Fall 2017-Spring 2018)
- Smart City Infrastructure Vertically Integrated Project
  - Team mentor (Spring 2017)
- American Society of Highway Engineers
  - President (Fall 2016-Spring 2017)
  - Treasurer (Fall 2015-Spring 2016)
- College of Engineering Champions
  - Ambassador (Spring 2016-current)

## *Publications and Presentations*

---

- Gadsby, A., Watkins, K., Le Dantec, C., Tsai, Y. (2018). Comparison of High and Low Stress Cycling Facilities Using Eye Tracking, International Cycling Safety Conference, Barcelona, Spain
- Gadsby, A., Tsai, Y. (2017). Preliminary Life Cycle Assessment of a New and Cost-Effective Pavement Preservation Treatment: Micro-milling and thin Overlay, 2017 MAIREINFRA Conference, Seoul, South Korea
- Tsai, Y., Gadsby, A., Cartillier, V. (2017). Innovative Data Fusion of High Resolution 3D Sensing Data and Low-Cost Accelerometer Data for Pavement Health Condition Evaluation, 2017 MAIREINFRA Conference, Seoul, South Korea
- Gadsby, A., Tsai, Y. (2016). An Innovative and Sustainable Micro-milling and Thin Overlay Preservation Technology with High Impact Using 3D Technology, 2016 ACC Meeting of the Minds Conference, Syracuse, NY
- Tsai, Y., Wu, Y., Gadsby, A., Hines, S. (2016). Critical Assessment of the Long-Term Performance and Cost-effectiveness of a New Pavement Preservation Method: Micro-milling and Thin Overlay, Transportation Research Record: Journal of the Transportation Research Board, Vol. 2550, pp. 8-1
- Tsai, Y., Wu, Y., Gadsby, A. (2016). Critical Assessment of the Long-Term Performance and Cost-effectiveness of a New Pavement Preservation Method: Micro-milling and Thin Overlay, 2016 Annual TRB conference, Washington D.C.

# GABRIELA DEL CARMEN GIRÓN VALDERRAMA

---

Tel.: + (425) 365 9021 - E-mail: gabriela.gval13@gmail.com / gabgv13@uw.edu  
Address: 101 Wilson Ceramic Lab, University of Washington. Seattle, WA 98195-2700

---

## EDUCATION

**University of Washington, Seattle, WA, USA.** Expected graduation: June, 2021  
Ph.D., Civil and Environmental Engineering - Transportation Track. GPA: **3.7/4**

**University of Washington, Seattle, WA, USA.** Graduation: June, 2018  
Master of Science (M.S.) in Civil Engineering - Transportation Track. GPA: **3.68/4**

**Technological University of Panama. Panama, Panama.** Graduation: October, 2013  
Bachelor of Science in Civil Engineering (5-year degree). GPA: **2.64/3**  
Thesis Project: “*Evaluation of the Warm Mix Asphalt’s design parameters in Panama*”

## PROFESSIONAL EXPERIENCE

**Research Assistant, Supply Chain Transportation and Logistics Center, UW.** September 2015 – Present

• ***SDOT – UW Truck and Passenger Cordon Study***

- Develop a baseline video-base cordon study for the Center City area.
- Create a vehicle typology with focus on commercial vehicles.
- Supervise, manage and train undergrad students.
- Estimate and characterize inbound and outbound vehicle of the Seattle’s urban core.

• ***SDOT – UW Final 50 Feet Project.***

- Built a comprehensive database of off-street freight parking infrastructure for the City of Seattle.
- Supervise, manage and train up to 30 undergrad students.
- Document and analyze truck parking activities in Seattle’s urban center.
- Advance and share of research through elaboration of a toolkit of best practices.
- Develop and implement occupancy study for urban freight infrastructure in Seattle’s urban core.

• ***WSDOT – UW Safe Truck Parking on PacTrans Interstate Corridors: I-5 and I-90.***

- Study of the truck parking infrastructure shortage in the PacTrans Region.
- Collect of valuable insights from truck drivers regarding the parking shortage in the I-5 and I-90 multistate corridors.

**Project Control and Budget Assistant, Empresas Bern. - Panam** October 2014 – June 2015

**Volunteer, Techo Panama.** December 2012 – September 2015

- Lead construction crews to build transitional houses in vulnerable communities.
- Coordinate and lead financial insecurity assessments of low-income family.
- Participate in efforts to promote social awareness inside universities.

**Civil Engineer, Derivados del Petroleo. – Panama.** October 2013 – September 2014

- Perform and monitor project budget for the construction of vial infrastructure, water supply systems, sewer systems and earthwork.
- Develop project proposal, budget and timeline for public and private tenders.



- Inspection and quality control of pavement construction and installation of drainage systems.
- Supervise and manage staff for construction projects.

**Assistant Engineer, Office of Special Projects, Ministry of Public Works. - Panama.**

Summer of 2012.

### AWARDS

- **2019 Senator Scott White Memorial Scholarship** - WTS Puget Sound Chapter. *March 2019*
- **1<sup>st</sup> place ITE Student Night Team Competition** – Institute of Transportation Engineers Washington (ITE Washington) - *May 2017*
- **Fulbright Scholarship Recipient.** - U.S. Embassy. *August 2015 –June 2017*
- **UTP Dean’s list.** - Technological University of Panama (UTP) – *2008 - 2012.*
- **Bachelor’s Degree Scholarship** – IFARHU, Panama. – *March 2008 – December 2012.*

### PUBLICATIONS

- Giron-Valderrama, G., Machado, J., Goodchild, A. (2018) Freight and the Seattle’s CBD: Giving insight about the battle for the curb. - Journal of the Transportation Research Board. – *In Process of Publication.*
- Machado, J., Giron-Valderrama, G., Goodchild, A., McCormack, E. (2019) - Private Freight Load/Unload Infrastructure: A missing piece of the Urban Freight Transportation Puzzle - Journal of Transportation Engineering, Part A: Systems – *Under review.*
- Giron-Valderrama, G., Ivanov, B., Goodchild, A. (2018) - Safe Truck Parking on PacTrans Interstate Corridors: I-5 and I-90 - WSDOT – *Pactrans Report.*
- Dubie, M.; Kuo, K; Giron-Valderrama, G; Goodchild, A. (2018) – An evaluation of logistics sprawl in Chicago and Phoenix - Special Section on Logistic Sprawl - Journal of Transportation Geography.
- Butrina, P., Girón-Valderrama, G., Machado-León, J.L., Goodchild, A., Ayyalasomayajula, P. (2017). From the Last Mile to the Last 800-ft: Key Factors in Urban Pick-Up/ Delivery of Goods. - Journal of the Transportation Research Board.

### CONFERENCE PRESENTATIONS

- Giron-Valderrama, G., Goodchild, A. (2019) Characterization and estimation of traffic volume: A Truck and Passenger Cordon Study of the Seattle’s Urban Core – TRB Innovations in Freight Data Workshop, California, 2019.
- Machado, J., Giron-Valderrama, G., Goodchild, A. (2018) Bringing Alleys to Light in Urban Freight Load/Unload Infrastructure Systems: A Seattle Case Study. – Accepted for presentation at Transportation Research Board (TRB) 97th Annual Meeting, Washington DC, 2018.
- Giron-Valderrama, G., Machado, J., Goodchild, A. (2018) Understanding the use of the curb space and alley for unloading and loading operations: A Seattle Case Study. – Accepted for presentation at 3rd VREF Conference on Urban Freight, Gothenburg, 2018.
- Giron-Valderrama, G., Machado, J., Goodchild, A., McCormack, E. (2017) – A new survey method for mapping private urban freight infrastructure. – Presented at: I-NUF 8th METRANS International Urban Freight Conference, Long Beach, CA, 2017.

### LEADERSHIP ACTIVITIES

- **Transportation Research Board (AT025 Member).** Young Member of the Urban Freight Transportation Committee (April 2018 – Present)
- **ITE UW Chapter.** Officer of Institute of Transportation Engineers Student Chapter at UW (2016 – 2017)
- **Engineers without Borders Panama national chapter.** Secretary of the board of directors. (2014 – 2015)
- **TECHO Panama.** Latin American’s NGO of young volunteers. (2011 - 2015)

# KRISHNA MURTHY GURUMURTHY

E: [gkmurthy10@utexas.edu](mailto:gkmurthy10@utexas.edu)

L: [linkedin.com/in/krishna-murthy](https://www.linkedin.com/in/krishna-murthy)

W: [gkmurthy10.github.io](https://github.com/gkmurthy10)

---

## EDUCATION

<b>The University of Texas at Austin, USA</b>	<i>expected August 2020</i>
Doctor of Philosophy in Civil Engineering ( <i>Transportation Engineering</i> )	GPA: 3.85 / 4.00
<b>The University of Texas at Austin, USA</b>	<i>expected May 2020</i>
Master of Science in Statistics and Data Sciences	GPA: 3.75 / 4.00
<b>The University of Texas at Austin, USA</b>	December 2017
Master of Science in Civil Engineering ( <i>Transportation Engineering</i> )	GPA: 3.81 / 4.00
<i>Thesis</i> Perceptions and Preferences of Autonomous and Shared Autonomous Vehicles: A Focus on Dynamic Ride-Sharing	
<b>National Institute of Technology Karnataka (NITK), India</b>	May 2016
Bachelor of Technology in Civil Engineering	GPA: 8.92 / 10.00

---

## EXPERIENCE

<b>Graduate Research Assistant</b>	Supervisor: Dr. Kara Kockelman	Fall 2016 – Present
Responsible for an ANL project focusing on transportation planning/forecasting for autonomous vehicles		<i>UT Austin</i>
<b>Research Aide – Technical</b>	Supervisor: Dr. Joshua Auld	Summer 2018
Tasked with developing algorithms for the control of shared-automated vehicle fleets and implementing the control & optimization algorithms in ANL's POLARIS		<i>Argonne National Laboratory</i>
<b>Graduate Teaching Assistant</b>	Course Instructor: Dr. Kara Kockelman	Spring '19
Responsible for students' performance in designing, implementing, collecting and modeling survey data focused on transportation engineering and policy.		
<b>Graduate Teaching Assistant</b>	Course Instructor: Dr. Kara Kockelman & Ms. Heidi Ross*	Spring '17, '18* & '19
Responsible for students' performance, grading, lab lectures (on MicroStation and GEOPAK) and final design-project outcome in a capstone course for transportation engineering		<i>UT Austin</i>
<b>Project Research Intern</b>	Supervisors: Drs. Tom V Mathew & Gowri Asaithambi	Spring 2016 – Summer 2016
Tasked with devising incorporating traffic models into existing simulation software		<i>IIT Bombay</i>
<b>Summer Research Intern</b>	Supervisor: Dr. Tom V Mathew	Summer 2015
Tasked with devising and programming microscopic traffic model and simulation software in MATLAB		<i>IIT Bombay</i>

---

## PUBLICATIONS

- **Gurumurthy, K.M.**, Kockelman, K. and Simoni, M.D. 2018. Benefits & Costs of Ride-Sharing in Shared Automated Vehicles Across Austin, Texas: Opportunities for Congestion Pricing. Forthcoming in *Transportation Research Record*.
  - Simoni, Michele D., Kockelman, K., **Gurumurthy, K.M.** and Bischoff, J. 2018. Congestion Pricing in a World of Self-Driving Vehicles: An Analysis of Different Strategies in Alternative Future Scenarios. *Transportation Research Part C: Emerging Technologies* 98: 167-185.
  - **Gurumurthy, K.M.** and Kockelman, K. 2018. Analyzing the Dynamic Ride-Sharing Potential for Shared Autonomous Vehicle Fleets using Cellphone Data from Orlando, Florida. *Computers, Environment and Urban Systems* 71: 177-185.
- 

## PAPERS & PRESENTATIONS (selected)

- Invited Speaker, at the SESYNC Pursuit: People, Land, Water and Fish - Integrating Social and Environmental Models in the Chesapeake Watershed held in Annapolis, Maryland, presentation titled "Modeling Emerging Modes and Advanced Policies in MATSim", 21-22 February, 2019.
- Mahmoud, J., Auld, J., and **Gurumurthy, K.M.** 2018. Intra-Household Fully Automated Vehicles Assignment Problem: Model Development and Case Study. Presented at the 98th Annual Meeting of the Transportation Research Board.
- **Gurumurthy, K.M.** and Kockelman, K. 2018. Modeling Americans' Autonomous Vehicle Preferences: A Focus on Dynamic Ride-Sharing, Privacy & Long-Distance Mode Choices. Presented at the 98<sup>th</sup> Annual Meeting of the Transportation Research Board and under review for publication in *Technological Forecasting and Social Change*.

- Selected Speaker, at the TRB Workshop on Doctoral Research in Transportation Modeling and Travel Behavior held in Washington, D.C., presentation titled "A System of Shared Autonomous Vehicles for Chicago: Anticipating Impacts at Multiple Stages of Adoption", 13 January, 2019.

## BOOK CHAPTERS & TECHNICAL REPORTS

- Co-author of Chapter 18 in "Smart Transport for Cities & Nations: The Rise of Self-Driving & Connected Vehicles". 2018. Kara Kockelman and Stephen Boyles (Eds). Published by CreateSpace on Amazon.com, August 2018. ISBN-10:0692121501, ISBN-13: 978-0692121504.
- Kockelman, K., Boyles, S., Sturgeon, P., Claudel, C., ... **Gurumurthy, K.M.**, He, D., ... and Yarmohammadisatri, S. "Phase 2 - Bringing Smart Transport to Texans: Ensuring the Benefits of a Connected and Autonomous Transport System in Texas - Final Report". Technical Report FHWA/TX-18/0-6838-3, TxDOT, CTR, UT Austin, TX, July 2018.
- Kockelman, K., Loftus-Otway, L., Stewart, D., Nichols, A., Wagner, W., Boyles, S., Levin, M., Liu, J., Perrine, K., Kilgore, S., and **Gurumurthy, K.M.** "Best Practices for Modifying Transportation Design, Planning, and Project Evaluation in Texas." Technical Report 0-6847-P1, TxDOT, CTR, UT Austin, TX, March 2017.

## SOFTWARE SKILLS

MATLAB • TransCAD • Java • Microsoft Office Suite • R • ArcGIS • C# • C++ • Python

## SELECT RESEARCH PROJECTS

**Implementing Shared Autonomous Vehicles in POLARIS and Assessing the Impact of Dynamic Ride-Sharing in Chicago** Fall 2018 – Present  
 Supervisor: Dr. Kara Kockelman (Sponsored by Argonne National Laboratory) *UT Austin*

POLARIS, an agent-based discrete event simulator developed by the Argonne National Laboratory, is being enhanced to simulate shared autonomous vehicles with dynamic ride-sharing capabilities. Policies such as geofencing the service, pre-determined pick-up and drop-off spots, and congestion pricing are being analyzed to understand the future of mobility.

## CO-CURRICULARS & VOLUNTEERING

**Marketing Coordinator**, UT Apartment's Tenant Advisory Board Spring 2019 - Present  
**Friend**, TRB's ADB40 Committee on Transportation Demand Forecasting Spring 2018 - Present  
**Volunteer**, Women's Transportation Seminars – Heart of Texas Annual Gala Spring 2018  
**Member & Ex-Officer**, Women's Transportation Seminars, UT Austin Student Chapter Fall 2017 – Present  
**Member & Past President**, Institute of Transportation Engineers, UT Austin Student Chapter Fall 2016 – Present  
**Member & Ex-Officer**, Intelligent Transportation Society of America, UT Austin Student Chapter Fall 2016 – Present  
**Mentor**, Graduates Linked with Undergraduates in Engineering (GLUE) Fall 2017  
**Lead Event Organizer**, Texas Student Leadership Summit Fall 2017  
**Core Team Member**, UT Austin Traffic Bowl Team Spring 2017 – Summer 2017

## PEER REVIEWER - JOURNALS

*Transportation Research – Part B, Part C • Computers, Environment and Urban Systems • Transport Policy • Transportation • Transportation Research Record: Journal of the Transportation Research Board*

## AWARDS & ACHIEVEMENTS

- Awarded the Graduate Research Award by the Airport Cooperative Research Program for the period 2018-19
- Received the Outstanding Student Award at TexITE Spring Meeting in 2018.
- Awarded the CAS-ITE (2017), ITS Texas scholarships (2017, 2018), and the Texas district ITE fellowship (2017).
- Part of the UT Austin Traffic Bowl Team that won the Texas district championship in Spring 2017 and came second in the International championships in Summer 2017

# Jeremy Halpern, EIT

+1-240-507-4633

jeremy\_halpern@berkeley.edu

---

## EDUCATION

**University of California, Berkeley**, Berkeley, CA Expected Fall 2019  
Master of City Planning/ Master of Science in Transportation Engineering Candidate  
**Northwestern University**, Evanston, IL Graduated Spring 2014  
Bachelor of Science in Civil Engineering and Urban Studies  
**Hong Kong University of Science and Technology**, Hong Kong S.A.R., China. Study Abroad Fall 2012

Relevant Coursework: Travel demand modeling/ Behavioral modeling, Transport Economics, Transportation Policy and Planning, Land use and transportation planning, Evaluation and Decision Making in Infrastructure Systems.

---

## EXPERIENCE

**AECOM, Transportation** Arlington, VA Summer 2018  
*Transportation Consultant Intern*

In the Strategic Planning Services division with overlap in Design, Planning and Economics

- Developed asset management and financing plans for transit agencies to forecast transit systems' state of good repair and maintenance backlogs under various funding scenarios.
- Wrote reports to help agencies to better understand their future needs.
- Effectively managed asset inventory compilation, state of good repair analysis, report writing.

**WSP Parsons Brinckerhoff**, Tel Aviv, Israel Winter 2016-Summer 2017  
*Systems Engineering Management/ Rolling Stock Design Coordinator*

WSP Parsons Brinckerhoff is the Project Management Consultant for the Tel Aviv Red Line Light Rail Project – 24km of railway (11km underground), 24 stops above ground and 10 underground stations.

- Coordinated system safety assurance of design and construction contractors with hazard analysis and close out.
- Led design reviews of rolling stock submissions and management plans.
- Monitored interfaces and assumptions between the Rolling Stock, Systems, O&M and Civils contractors.
- Implemented DOORS database for tracking Rolling Stock supplier's requirements.

**Fulbright Research Program**, Haifa, Israel Summer 2014-Summer 2015  
*Postgraduate Research Fellow*

Researcher at the Technion-Israel Institute of Technology under the mentorship of Professor Yoram Shifan

- Designed and conducted field study comparing rider perceptions of “premium” service for bus rapid transit (BRT) in Haifa and light rail in Jerusalem.

**Pace Suburban Bus Service**, Arlington Heights, IL Summer 2013  
*Service Analysis Intern*

- Assisted in data analysis and data quality related to areas such as ridership, passenger counts and operational statistics
- Updated the service-cost model for contractors and the nine Pace garages utilizing MS Access

**Northwestern University Transportation Center**, Evanston, IL Winter 2013-Summer 2013  
*Undergraduate Research Assistant*

- Analyzed simulations of CTA bus routing through querying in MySQL and organizing datasets in PHP to improve the CTA bus service
- Built a graphical user interface (GUI) to represent and interact with CTA bus data

---

## SKILLS

- **IT:** Proficient in Python, DOORS, Revit, ArcGIS, MS Visio, MS Access, R, SPSS, STATA, MATLAB, AMPL
- **Languages:** Fluent in Hebrew; Knowledgeable of Arabic, Spanish

---

## ACADEMIC ACTIVITIES

---

**UC Berkeley Institute for Transportation Studies, Berkeley, CA**

**Graduate Student Researcher**

Winter 2018-Present

Project to study the City of Berkeley's Taxi Scrip Program for seniors and residents with disabilities and the prospect of interfacing with TNCs (Uber and Lyft).

- Conduct literature review, construction of US taxi scrip program database, data analysis of Berkeley senior population, and interview experts

Project to evaluate the impacts of rail infill stations in the US with a Bay Area case study focused on regional effects and success factors from the urban environment

- Conducted literature review, collected relevant long range plans, land use and transportation data, and interviewed experts

**Transport Policy Journal (Elsevier), Peer Reviewer**

Fall 2014 – Fall 2016

**Transport Chicago, Chicago, IL**

*Presentation:* "Millennials' transit preferences in the suburban context"

June 6, 2014

**14<sup>th</sup> International Conference of Travel Behavior Research, Windsor, UK**

*Presentation:* "Perception of premium transit services and the impact of prior experience"

July 19-23, 2015

---

## PUBLICATIONS

---

Nelson, A., S. Lindbergh, L. Stephenson, **J. Halpern**, F. Arroyo Arroyo, X. Espinet, M.C. Gonzalez. "Coupling Natural Hazard Estimates with Road Network Analysis to Assess Vulnerability and Risk: Case Study of Freetown, Building Disruption Simulations in Hydrometeorological Risk Areas in Data-Scarce Sierra Leone." *Transportation Research Record*. January 2019

---

## AWARDS

---

- **Dwight D. Eisenhower Graduate Transportation Fellow** 2018-2019
- **Norman Foster Foundation Urban Mobility Workshop Scholar**, Madrid, Spain  
One of ten globally-selected students to participate in the 2018 urban mobility workshop September 2018
- **Golden Idea Award**, Shenzhen, China  
Member of the 4-person UC Berkeley team in the BMW Future Mobility Design Competition August 2018
- **California Planning Foundation Northern Section Award** July 2018
- **Fulbright Scholar**, Haifa, Israel August 2014–August 2015

# DYLAN ROSS HORNE

[hornedy@oregonstate.edu](mailto:hornedy@oregonstate.edu)

PO Box 1424 Corvallis, OR 97339

704.433.6945

## EDUCATION

---

### Oregon State University, Corvallis, OR

Ph.D. Candidate Civil Engineering (Transportation) GPA 3.8 / 4.0 Anticipated June 2020

### North Carolina State University, Raleigh, NC

Masters of Civil Engineering (Transportation) GPA 3.8 / 4.0 May 2015

B.S. Civil Engineering (Transportation), Minor in Economics Magna Cum Laude May 2013

## CERTIFICATION

---

CITI Human Subjects Research & Conflict of Interest Trainings ID 5936119 Oct. 2016

Passed NCEES Fundamentals of Engineering Exam ID 13-926-31 Oct. 2012

## PROFESSIONAL EXPERIENCE

---

### Oregon State University, Corvallis, OR

Sept. 2016 – Present

#### **Graduate Research Assistant**, Driving and Bicycling Simulator Lab

- Calibration of bicycle simulator speed to insure consistent and representative results
- Developed methodology for evaluating visual latency of bicycle simulator based on steering input
- Simulator experiment to understand multimodal conflicts with freight loading zones in urban environments
- Evaluation of interior alert and exterior sound characteristics of sinusoidal and transverse rumble strips

### Institute for Transportation Research and Education (ITRE), NCSU, Raleigh, NC

Sept. 2015 – March 2016

#### **Research Assistant**, Bicycle & Pedestrian Group

- Identified high-risk trespass paths based on train crew surveys, geospatial data, and frequent observation
- Coordinated with various municipal agencies to determine high volume pedestrian and bicycle corridors
- Installed short duration pedestrian and bicycle count equipment throughout NC and analyzed count data

### Moffatt & Nichol, Raleigh, NC

May 2014 – May 2015

#### **Highway / Railway Engineering Specialist**

- Designed railroad horizontal and vertical alignments, cross sections, and typical drawings
- Field inspection and inventory of railroad grade crossing
- Microsimulation based signal timing plans for improved corridor progression

### North Carolina Department of Transportation: Rail Division, Raleigh, NC

Nov. 2013 – May 2014

#### **Rail Intern**, Engineering and Safety Branch

- Gathered statewide grade crossing information, primarily school bus crossing data
- Analyzed NCDOT's grade crossing databases to improve data reporting to the FRA's inventory
- Field inspection and inventory of railroad grade crossing

### Institute for Transportation Research and Education (ITRE), NCSU, Raleigh, NC

Sept. 2013 – May 2014

#### **Graduate Research Assistant**, Highway Systems Group

- Evaluated radar detection of vehicles to modify exit gate operations at four quadrant gate grade crossings
- Findings have been used to justify the implementation of radar detection at railroad grade crossings across NC
- Developing statewide traffic management data evaluation tools for improved ITS integration

## PEER REVIEWED JOURNAL PUBLICATIONS

---

- **Horne, D.**, Ghodrat Abadi, M., and Hurwitz, D. (2018) *Bicycling Simulator Calibration: A Proposed Framework*. Transportation Research Record: Journal of the Transportation Research Board. Vol 0, Issue 0, Pages 1-8.
- **Horne, D.**, Findley, D., Coble, D., Rickabaugh, T. and Martin, J. (2016) *Evaluation of Radar Vehicle Detection at Four Quadrant Gate Rail Crossings*. Journal of Rail Transport Planning & Management. Vol 6, Issue 2. Pg 149-162

## TECHNICAL REPORTS

---

- Hurwitz, D., **Horne, D.**, Jashami, H., Monsere, C. and Kothuri, S. (2019) *SPR 800: Quantifying the Performance of Low-Noise Rumble Strips* ODOT, Salem, OR, 123p.
- Hurwitz, D., **Horne, D.**, Jashami, H., and Ghodrat Abadi, M. (2018) *Bicycling Simulator Calibration: Speed and Steering Latency*. Pacific Northwest Transportation Consortium (PacTrans), Seattle, WA, 21p.
- Hurwitz, D., **Horne, D.**, and Jashami, H. (2018) *SPR 829A Quantifying the Performance of Low-Noise Transverse Rumble Strips* ODOT, Salem, OR, 35p.

## CONFERENCE PAPERS & EXTENDED ABSTRACTS

---

- **Horne, D.**, Ghodrat Abadi, M., and Hurwitz, D. (2017) *Bicycling Simulator Speed Calibration*. 2017 International Cycling Safety Conference. Davis, CA.
- **Horne, D.**, Searcy, S., Cunningham, C., and Machak, N. (2017) *Predicting Railroad Right-of-Way Trespassing Incidents*. 2017 TRB Annual Meeting. Washington DC. TRB #17-01128

## PRESENTATIONS

---

- Quantifying the Performance of Low-Noise Rumble Strips
  - ASCE International Conference on Transportation & Development, June 2019, Alexandria, VA. (accepted)
  - TRB ADC 40: Mid-year Meeting, June 2018, Washington DC. <http://www.adc40.org/summer2018pres.html>
- Using Right Turn Flashing Yellow Arrows for Improved Bicycle & Pedestrian Safety
  - TRB Annual Meeting: Traffic Control Devices Challenge, 2<sup>nd</sup> Place, January 2019, Washington DC.
- Radar Vehicle Detection at Four Quadrant Gate Rail Crossings
  - AREMA Annual Meeting, September 2014, Chicago, IL.
  - Global Level Crossing Symposium, August 2014, Urbana, IL.

## SCHOLARSHIPS

---

- Bill Kloos Scholarship 2<sup>nd</sup> Place, Oregon ITE 2018
- PacTrans Education Scholarship, USDOT 2016 & 2017
- Richard and Lilo Smith Graduate Fellowship, OSU 2016-2017

## LEADERSHIP & SERVICE

---

- Eno Future Leaders Development Conference *Washington DC* 2019
- **Chair**, Statewide Transportation Improvement Fund Committee *Benton County, OR* 2018-Present
  - Developing transit funding allocation methodology and project selection process
- **Chair**, Bicycle and Pedestrian Advisory Board *City of Corvallis, OR* 2017-Present
  - Facilitates conversations between stakeholders to improve active transportation safety and mobility
- Corvallis Bicycle Collective, *Ask-A-Wrench Mobile Repair Mechanic* 2017-Present
  - Community bike shop: promotes organization, educates about maintenance, leads shop services events
- Corvallis Open Streets, *Organizer, Designer* 2017-Present
  - Designs temporary traffic calming treatments, promotes event, bicycle carousel carny
- Organic Growers Club, *OSU Student Led Farm* 2017-Present
- Institute of Transportation Engineers, *Student Member* 2011-Present
- Eagle Scout 2006
- NC State University: ASCE; Wolfpack Rowing Club 2008-2013
- Founding President, NC State AREMA Student Chapter 2013

# DEVON JENNINGS

1<sup>st</sup> Year MS/PhD Student

[jenningsd@uci.edu](mailto:jenningsd@uci.edu)

424-312-2734(c)

**OBJECTIVE:** Seeking a career regionally or internationally where I can develop in the field of civil engineering while gaining career-related experience in the transportation/environmental sector.

**University of California, Irvine** –Civil Engineering (Transportation) MS/PhD candidate

Expected Graduate 2019

**Arizona State University** - Civil Engineering, B.S.E

May 2016

## SOFTWARE SKILLS

Synchro, R, TransCAD, HCM, FAARFIELD (FAA), AutoCAD, Microsoft Publisher, Word, PowerPoint, Excel, MATLAB, Java, Unity, HEC RAS

## RESEARCH/WORK EXPERIENCE:

**University of Birmingham (UK) - Research**

August 2016- August 2017

**Recyclability and Recoverability of Rolling Stocks in Civil Constructions**

(Publication Pending)

- Assessed the impact of using waste material from old trains to recycle and reuse into the new rolling stocks being produced
- Identified methods of calculation for net present value of waste material
- Broke down and compared the amount of raw materials, which could be recycled, reused or must be destroyed for industry use in the European Union.
- Investigate the applications of the raw materials for civil constructions.
- Calculated the Carbon Footprint of waste Materials.
- Calculated the life cycle of using the waste materials.

**US Department of Transportation (Federal Highway Administration)**

May 2016- May 2018

- Perform inspection of contractor's operations for a variety of operations such as: earthwork, aggregate base, paving, and retaining walls; and concrete structures such as bridges and box culverts, culvert installation, under-drain, slope stabilization and erosion control.
- Witness sampling of general construction materials for independent assurance testing, package, and send to the Denver laboratory.
- Serve as an instrument operator on construction engineering stakeout of projects and/or monitors contractor stakeout.
- Observe and evaluates safety precautions of contractor.
- Prepare routine reports and estimates.
- Participate in construction partnering meetings and/or other meetings with contractor personnel

**Arizona State University** Tempe, Arizona

April 2015- May 2016

- Developed step-by-step tutorials and self-study software packages for students to learn basic and advanced traffic modeling skills.
- Worked on Large-scale Dynamic Traffic Assignment and Simulation using software for real-time traveler information systems to generate proactive, coordinated route guidance and control instructions. Funded by FHWA and EPA.
- Collected and analyzed data on dynamic traffic conditions
- Presented Research on optimization and ridesharing at Transportation seminar hosted by Ira. A Fulton schools of Engineering
- Created learning document for solving ride sharing problems and using 6 node transportation networks.
- Took graduate courses on Airport design and performed numerous airport design projects

## High Speed Bus Study

- Gathered and analyzed data for high speed bus system

October 2014- December 14

**NASA Space Research Internship** Tempe, Arizona

August 2014- May 2015

- Performed research with Geology Professor/expert in geoscience field
- Evaluated how a major redesign of an introductory geoscience course affected student learning on a broad range of earth and space science topics
- Presented at ASU's Research Symposium and for the Engineering School
- Presented research at National Society of Black Engineering conference in Anaheim, CA



- Analyzed over 600 students behaviors
- Calculated and compared the means and standard deviations of scores of assignments between in-person and online versions of the course and to perform a T-Test to assess whether the data were or were not significantly different between the two versions of the course
- Information was used for a publication.

**Nuclear Regulatory Commission, Washington, DC**

**May 2014- August 2014**

**Engineer (Assistant)**

- Have Security Clearance until 2024
- Established and maintained effective communications and working relationship between the NRC and States, local government, other Federal agencies and Native American Tribal Governments. Served as the primary contact for policy matters between NRC and these external groups. Kept the Agency apprised of the external groups' activities as they may affect NRC and conveys to NRC management the external groups' views toward NRC policies, plans, and activities. Administer the Agreement State Program for disposal of radioactive waste material.
- Assisted writing the Branch Technical Position (BTP) and updating the BTP for 2014 standards (Published in 2015). 10 CFR Part 61, "Licensing Requirements for Land Disposal of Radioactive Waste," provides licensing procedures, performance objectives, and technical requirements for the issuance of licenses for the land disposal of low-level radioactive waste (LLW).
- Presented to the Office Director on methods of mitigating and fast responding on Nuclear accidents and the half-lives of radioactive material

**Arizona Department of Transportation (ADOT), Phoenix, Arizona**

**May 2013- August 2013**

**Engineer (Assistant)**

- Roadways Inspections, closely monitored all of the ADOT controlled roads in the Greater Phoenix area
- Worked in the Emergency response and repair division unit.
- Handled Contracting, supervised contractors work to make sure safety codes were being followed

**City of Phoenix Department of Transportation, Phoenix, Arizona**

**January 2013-May 2013**

**Engineer (Assistant)-Traffic Safety program**

- Performed detailed Traffic video analyses (7 intersections)
- Redesigned intersection of arterial roadway and signal timings (51<sup>st</sup> Ave & Estrella Dr)
- Performed Traffic signal warrants/removal analysis of intersections/network optimization

**Turner Construction, Columbus, Ohio**

**May- August 2011 & 2012**

**Engineer (Assistant)**

- Updated/posted documents, providing take-off for change order work, review pricing
- Studied CAD drawing and inspected placements of rebar for parking structure that was being constructed.

**SCHOLARSHIPS & AWARDS:**

Pacific Southwestern Region 9 UTC Fellowship Recipient 2017-18

American Association of Highway Engineers Scholarship Recipient

NASA Space Research Grant

Bill and Melinda Gates Millennium National Scholarship Recipient

Ira Fulton Engineering Study Abroad Scholarship (2)

Benjamin Gilman International Scholarship Recipient

2012 Horatio Alger Association of Distinguished Americans Scholarship Recipient

Attended GMS Leadership conference in Georgia

American Association of Highway Engineers Scholarship Recipient

Presented at transportation seminar-ASU

Tsinghua University award for completing the Engineering Program

**CLUBS:**

**(President)**- Gates Millennium Scholars Organization (CBL) -Secured over \$25,000 in funding for both organizations

**(Treasurer)** -National Society of Blacks Engineers (NSBE) - Wrote numerous budget proposals to the university

- Institute of Transportation Engineers (ITE) – Professional Member

**VOLUNTEER EXPERIENCE:**

UCI Engineering Bridge Program Volunteer

K-12 Geology excursion leader Earth & Space Science Open House

Mentor at Gates Foundation Conference

Mandy's Farm Volunteer

First Nations Food Bank

Organize GMS Fall Welcome Dinner at ASU

# Jessica R. Lazarus

(925) 895-7897 JLaz@berkeley.edu  
Dept. of Civil & Environmental Engineering,  
University of California, Berkeley  
652 Sutardja Dai Hall, Berkeley, CA 94709

## EDUCATION

### University of California, Berkeley, CA, USA

**Ph.D.** Civil & Environmental Engineering, Transportation Engineering Expected 2022

**M.S.** Civil & Environmental Engineering, Transportation Engineering 2018

**B.S.** Industrial Engineering & Operations Research 2015

*Minor field:* Computer Science

### Universidad Carlos III de Madrid, Leganés, Madrid, Spain

Visiting student 2014

## AWARDS & HONORS

**Dwight D. Eisenhower Transportation Fellow**, Federal Highway Administration (FHWA) 2019

*Awarded a graduate research fellowship and a poster presentation of my research at the 2019 TRB Annual Meeting.*

**Outstanding Undergraduate Research Award**, Institute of Transportation Studies, UC Berkeley 2015

*Awarded to two undergraduate researchers among the nine research centers of the Institute.*

**L.J. Craig Scholarship**, UC Berkeley Hillel 2015

*Awarded to outstanding Jewish engineering students demonstrating leadership at UC Berkeley.*

**Regents' & Chancellor's Scholarship**, UC Berkeley 2011-2015

*Awarded to the top 2% of incoming undergraduates at UC Berkeley.*

## RESEARCH INTERESTS

- Mechanism design for transportation demand management and sustainable transportation policy
- Travel behavior modeling and forecasting using discrete choice analysis and agent-based simulation
- Behavioral and environmental impact analysis of on-demand shared mobility services

## ACADEMIC PUBLICATIONS, PROCEEDINGS, AND REPORTS

Lazarus, J., J.C. Pourquier, H. Hammel, F. Feng, and S. Shaheen (2019, January). *Bikesharing Evolution and Expansion: Understanding how docked and dockless models complement and compete – A case study of San Francisco*. Presented at the 2019 Transportation Research Board Annual Meeting, Washington, D.C., USA.

Lazarus, J., J. Ugirumurera, S. Hinardi, M. Zhao, F. Shyu, Y. Wang, S. Yao, and A. Bayen (2018, November). *A Decision Support System for Evaluating the Impacts of Routing Applications on Urban Mobility*. Presented at the 2018 IEEE 21<sup>st</sup> International Conference on Intelligent Transportation Systems (ITSC), Maui, Hawaii, USA.

Lazarus, J. and A. Bayen (2018, October). *Planning for the Future of Mobility: Considering the Potential Impacts of Innovation in Transportation*. Presented at the 2018 Transportation Association of Canada Conference and Exhibition, Saskatoon, Saskatchewan, Canada.

Lazarus, J., S. Shaheen, S. Young, D. Fagnant, T. Voegelé, W. Baumgardner, J. Fishelson, and S. Lott. 2017. *Shared Automated Mobility and Public Transport*. Chapter in Road Vehicle Automation 4, G. Meyer and S. Beiker (eds), 141-161. New York: Springer. doi: 10.1007/978-3-319-60934-8\_13.

Stocker, A., J. Lazarus, S. Becker, and S. Shaheen. 2016. *North American College/University Market Carsharing Impacts: Results from Zipcar's College Travel Study 2015*. Transportation Sustainability Research Center (TSRC), UC Berkeley.

Shaheen, S., A. Stocker, J. Lazarus, and A. Bhattacharyya. 2016. "RideKC: Bridj Pilot Evaluation: Impact, Operational, and Institutional Analysis." Transportation Sustainability Research Center (TSRC), UC Berkeley.

## RESEARCH EXPERIENCE

### Mobile Sensing Lab, UC Berkeley

Graduate Student Researcher

2018-Present

- *Contribute to the Dynamic Traffic Assignment research group, focusing on multi-objective mechanisms to achieve social optima in network games with heterogeneous users.*
- *Leading the development of a decision support system for assessing the impacts of routing apps on urban mobility and evaluating the efficacy of mitigation strategies for the resulting negative externalities.*

### Transportation Sustainability Research Center, UC Berkeley

Graduate Student Researcher

2017-Present

- *Designing a stated preference survey and agent-based simulation framework to perform policy scenario analysis for a state-funded study to understand ridesourcing/transportation network company (TNC) (e.g., Uber, Lyft) users' decisions between ride alone and shared ride options and assess pricing policies to incentivize sustainable mode split.*
- *Designed and managed the deployment of a longitudinal travel survey to assess the behavioral and environmental impacts of a dockless electric bikeshare pilot in San Francisco.*
- *Created an agent-based simulator of electric carsharing fleet charging in collaboration with a major telecommunications company.*

Staff Researcher

2015-2017

- *Contributed to a climate-impacts study of ridesourcing/TNC services, Uber and Lyft, with modal shift analysis and the design of a framework to merge sensitive proprietary data and activity data from competing operators.*
- *Performed statistical analysis to measure the impacts of carsharing on the quality of life of users in the North American college market.*
- *Analyzed survey results and activity data for an evaluation study of a microtransit pilot in Kansas City.*
- *Performed geospatial analysis of carsharing activity in five major North American cities for a research project aiming to model transit-linking carsharing trips.*
- *Authored the Innovative Mobility weekly newsletter, which covers the top news stories in carsharing, ridesharing, bikesharing, ridesourcing/TNCs, vehicle technology, intelligent transportation systems, etc.*

## PROFESSIONAL EXPERIENCE

### Loup, Inc., San Francisco, CA

Operations Intern

2014-2015

- *Assessed traffic patterns and commuter demographics to determine optimal transportation routes for an on-demand fixed-route transportation service in San Francisco; forecasted demand and the competitive landscape in prospective regions for expansion.*
- *Delivered periodic recommendations to improve operational efficiency and profitability based on quantitative analysis of activity data, customer feedback, market evaluation, and other relevant investigation.*

## COMMUNITY SERVICE

### Girls in Engineering Program, UC Berkeley

Self-driving car module leader

2018

### Bay Area Graduate Pathways to STEM, Stanford University

Graduate student mentor

2018

## LANGUAGES & SKILLS

**English:** Native

**Spanish:** Bilingual

**Programming:** HTML, Java, MATLAB, Python, R, SQL

## REFERENCES

### Susan Shaheen

Adjunct Professor, Civil & Environmental Engineering  
Co-Director, Transportation Sustainability Research Center  
University of California, Berkeley  
408 McLaughlin Hall  
Berkeley, CA 94709  
(510) 642-9168  
sshahen@berkeley.edu

### Alexandre Bayen

Liao-Cho Professor of Engineering  
Director, Institute of Transportation Studies  
University of California, Berkeley  
642 Sutardja Dai Hall  
Berkeley, CA 94709  
(510) 642-3586  
bayen@ce.berkeley.edu

**EMMA LUCKEN**  
[emma\\_lucken@berkeley.edu](mailto:emma_lucken@berkeley.edu)

(651) 343-5762

## EDUCATION

### **University of California, Berkeley**

Berkeley, CA

Ph.D., Transportation Engineering, Expected May 2021. GPA 4.00.

M.S., Transportation Engineering, December 2017. GPA 3.96.

- Eno Future Leaders Development Conference 2019: Maggie Walsh, WTS Chair Award Winner.
- NSF Graduate Research Fellow 2018, FHWA Eisenhower Graduate Fellow 2017 and 2016.

### **Harvard University**

Cambridge, MA

A.B., *summa cum laude*, Environmental Science and Public Policy, May 2014. GPA 3.96.

- Phi Beta Kappa 2013, Presidential Scholar 2010, National Merit Scholar 2010.
- Best Thesis in Major: *Implementing Bicycle Infrastructure in Contested Environments: A Comparative Analysis of Copenhagen, Rotterdam, and Boston*

## TRANSPORTATION AND RESEARCH EXPERIENCE

### **Urban Analytics Lab**

Berkeley, CA

*Graduate Student Researcher*

August, 2018 to Present

- Developed a model to simulate departure time for trips to and from work and school, using Python and data from the 2012 California Household Travel Survey.

### **Smart Cities Lab**

San Francisco, CA

*Graduate Student Researcher*

July, 2017 to September, 2017

- Met with 28 leaders in San Francisco city and regional government, start-ups, and consulting companies to document the city's transportation challenges and potential solutions.

### **Minnesota Department of Transportation, Metropolitan District**

Golden Valley, MN

*Transportation Engineering Intern*

June, 2015 to May, 2016

- Used MicroStation to analyze utilities conflicts on a \$200 million project to renovate and add BRT lanes and light rail access to Interstate 35W, one of the Twin Cities' main thoroughfares.
- Conducted field inspection and supervised road paving and utility installation for the construction of a diverging diamond interchange at Highway 96 and Interstate 35W.

### **Volpe Transportation Center, U.S. Department of Transportation**

Cambridge, MA

*Junior Transportation Analyst*

June, 2014 to May, 2015

- Wrote ten FHWA/FTA Regional Models of Cooperation Case Studies, two FTA Transit Advisory Committee for Safety Letter Reports, and two FHWA Successes in Stewardship Newsletters.
- Helped research, write, and edit the first-ever FHWA Environmental Justice Reference Guide.
- Created GIS maps of the public transportation connections between underserved communities and National Wildlife Refuges in major metropolitan areas.

### **Massachusetts Department of Transportation, Rail and Transit Division**

Boston, MA

*Harvard Institute of Politics Director's Intern*

May, 2013 to July, 2013

- Researched statewide councils on paratransit transportation services to inform the creation of the first Massachusetts Statewide Coordinating Council on Community Transportation.

## PUBLICATIONS AND CONFERENCE POSTERS

Lucken, E., et al. (2018). Impact of information about health and academic benefits on parent perception of the feasibility of active transportation to school. *Journal of Transport & Health*, 10.

- Lucken, E., & J. Walker. (2017). Quantifying the equity of health impacts from active transportation projects. Poster at the Active Living Research Conference, Clearwater Beach, FL.
- Middleton, S., Lucken, E., & Regan, T. (2014). Disadvantaged Business Enterprise and Business Development Programs: A TPCB Peer Exchange. *U.S. Department of Transportation*.

#### LEADERSHIP AND VOLUNTEER EXPERIENCE

- Squash Drive** Berkeley, CA  
*Tutor* September, 2016 to December, 2017
- Tutored low-income and minority middle school students in math and science once a week.
- Girls in Engineering Summer Camps** Berkeley, CA  
*Presenter, Activity Leader* July, 2017
- Planned and led transportation engineering lessons and activities for girls in middle school.
- UC Berkeley Graduate Assembly** Berkeley, CA  
*Representative of Civil Engineering Department* September, 2016 to May, 2017
- Represented all graduate students on the faculty's Diversity and Campus Climate Committee.
  - Led the process for a student group on transportation equity to become an officially-recognized organization, qualifying them for university funding.
- Bay Area Graduate Pathways to STEM** Berkeley, CA  
*Mentor* October, 2016 to May, 2017
- Mentored minority women undergraduates considering graduate school in engineering.
- Harvard Council for Student Sustainability Leaders** Cambridge, MA  
*Co-Chair 2013-14* September, 2012 to May, 2014
- Directed efforts to provide student commentary on the University's 2014 Sustainability Plan.
  - Tested and presented a strategy for in-dorm composting to University administrative staff.
- Harvard EnviroEd** Cambridge, MA  
*Teaching and Training Coordinator, Tutor* January, 2011 to May, 2012
- Organized training for college volunteers to prepare them for teaching in elementary schools.
  - Developed curriculum and taught third through fifth graders about threats to the environment.

#### ADDITIONAL HONORS AND AWARDS

- Received and declined **MIT School of Engineering Presidential Fellowship 2016**: Only full fellowship offered by MIT's transportation department that year.
- Received and declined **UC Davis George and Dorothy Zolk Fellowship 2016**: Full fellowship offered to only two graduate students schoolwide each year.
- **Harvard Green Award 2014**: One of two undergraduates honored for significant contributions to Harvard University sustainability efforts.
- **Phi Beta Kappa 2013**: One of 24 Harvard juniors (from a class of 1600) selected on the basis of interdisciplinary academic achievement for early induction into the academic honor society.
- **Udall Scholarship Honorable Mention 2013**: National fellowship for college sophomores and juniors who are promising leaders on environmental issues.
- **Harvard College Detur Book Prize 2012**: Awarded for Academic Excellence to students with GPAs in the top 5% of the Harvard Class of 2014.
- **Presidential Scholar 2010**: One of 120 in the country; selected based on SAT scores and essays.
- **Scholar Athlete Milk Mustache of the Year Award 2010**: One of 25 high school seniors selected in the country; chosen based on leadership in academics, athletics, and community service. Sponsored by USA Today and the Milk Processor Education Program.

# NICOLE MCGRATH

2401 Aldrich St. Apt. 454 Austin, Texas 78723 U.S.A.  
(305) 788 5995 | [nemcgrath@gmail.com](mailto:nemcgrath@gmail.com)  
<https://www.linkedin.com/in/nmcgrathrodriguez>

## EDUCATION

---

- University of Texas at Austin** **Austin, TX, USA**  
**M.S., in Community and Regional Planning** **expected Aug. 2019**  
Honors & Activities: **current G.P.A. 4.00**
- Graduate School Mentor Fellowship
  - Graduate School Recruitment Scholarship
  - CRP Student Organization (President)
- University of Florida** **Gainesville, FL, USA**  
**B.A., *cum laude*, in Political Science and English** **May 2010**  
Minor in Spanish **G.P.A. 3.87**  
Honors:
- Florida Bright Future's Scholarship
  - President's Honor Roll
- Pontifical Catholic University of Valparaíso** **Valparaíso, Chile**  
**Semester Abroad** **Feb. – July 2009**

## EXPERIENCE

---

- CM<sup>2</sup> USDOT University Transportation Center** **Austin, TX, USA**  
**Graduate Research Assistant for Administration** **Sept. 2018 – Present**
- Manage timelines, reporting, and funding for research projects across multiple institutions.
  - Draft federal grant reports, including performance indicators, cost share reporting, and tech transfer.
  - Built a large social media presence to expand the reach of the center's research findings.
- Jacobs Engineering Group** **Austin, TX, USA**  
**Environmental Planning/Public Involvement Intern** **Nov. 2017 – Aug. 2018**
- Created public involvement timeline and checklist templates for the TxDOT Rural TIP process.
  - Managed the stakeholder and agency working group database for TxDOT public involvement plans.
  - Generated all public meeting and interview materials, including maps/agendas/notifications.
- Town of Miami Lakes** **Miami Lakes, FL, USA**  
**Transportation Planning Coordinator (*interim*)** **July 2016 – Oct. 2016**  
**Planning and Zoning Intern** **June 2015 – Sept. 2015**
- Oversaw transit operations of a 3-vehicle fleet, supporting mobility goals of the Town's Strategic Plan.

- Maintained contracts and authorized payments for transit related expenditures, totaling over \$700,000.
- Conducted outreach with elderly, disabled, and youth populations, promoting accessible transit.
- Implemented a maintenance plan for all transit stop facilities, including county funded shelters.

**U.S. Antarctic Program**

**McMurdo Station, Antarctica**

**Air Transportation Specialist/Materials person**

**Oct. 2013 – July 2016**

- Planned off- and on-continent cargo/passenger movement through 2 airfields and 1 marine terminal.
- Safely processed and transported sensitive science samples for onward delivery to U.S. laboratories.
- Trained 10-person cargo team for winter flight operations, the second winter ever with regular flights.
- Operated heavy equipment for upload and download of cargo from military and commercial aircrafts.

**University Press of Florida**

**Gainesville, FL, USA**

**Rights and Permissions Manager / Grants Coordinator**

**Aug. 2010 – Sept. 2011**

- Negotiated subsidiary rights agreements with publishers and other third parties.
- Secured grant funding for publications, raising over \$110,000 for the fiscal year.

**PUBLICATIONS, AWARDS, & CERTIFICATES**

---

- “Understanding Super commuters...” ACSP Conference – Presenting Author (2018)
- [“Evaluating Walkability...”](#) Transportation Research Board Annual Meeting – Presenting Author (2018)
- [“What public transit can learn from Uber and Lyft”](#) (*The Conversation*) – Author (2017)
- [“Stranded in our own communities...”](#) (*The Conversation*) – Author (2017)
- National Science Foundation – Antarctic Service Medal of the United States of America (2014)
- University of Miami – Certificate in Web Design (2013)

**PROFESSIONAL MEMBERSHIPS**

---

American Planning Association  
 Women in Transportation Seminar (Heart of Texas Division)  
 Phi Beta Kappa

**LANGUAGES AND SKILLS**

---

**Languages**

- English (Native)
- Spanish (Native)
- French (Basic)

**Computer skills**

- Adobe Creative Suite
  - Photoshop
  - InDesign
  - Illustrator
  - Lightroom
  - Dreamweaver
- ArcGIS
- HTML5 and CSS3
- WordPress
- Microsoft Office
- Windows and Mac OS
- MetroQuest
- Maximo
- TRAKiT
- NVivo

**Christopher T. Oster**

1725 U Street NW Apt B, Washington, DC \* coster@udel.edu \* 630.430.3907

**EDUCATION**

---

**Doctor of Philosophy in Energy and Environmental Policy** **Expected: June 2020**

University of Delaware, Newark, DE

*Dissertation Title: Aggregate Air Pollution Measures for Assessing Environmental Justice Concerns in Transportation Systems*

**Master of Science in Physical Sciences** **June 2015**

The University of Chicago, Chicago, IL

**Bachelor of Arts in Geophysical Sciences** **June 2011**

The University of Chicago, Chicago, IL

**EXPERIENCE**

---

**Graduate Fellow** **September 2018- Present**

*National Science Foundation, National Research Traineeship Program, Washington, DC*

- Assessing air pollution distribution changes of alternative fuel technologies in metro areas
- Communicating the potential impacts of air pollution with community stakeholders

**Teaching Assistant- Advanced Sustainability Policy** **January 2018- June 2018**

*University of Delaware, Newark, DE*

- Recruited speakers to present research and thought pieces on contemporary issues
- Structured course readings introducing students to contemporary topics in sustainability policy so they can engage with expert seminar speakers

**Graduate Research Fellow- Public Health Policy** **June 2017- January 2018**

*UD ENEP Program in partnership with Argonne National Laboratory, Newark, DE*

- Analyzed novel street level air pollution data using GIS that assessed exposure levels on active commuters in West Oakland, CA
- Optimized commuting pathways that minimized exposure to hazardous air pollutants

**Graduate Research Assistant- Transportation Sustainability** **September 2016- May 2017**

*Center for Energy and Environmental Policy, Newark, DE*

- Investigated transportation related data in relation to sustainability performance of cities
- Authored a report, executive summary, and policy brief on the transportation sustainability performance of Wilmington, DE assessed using a data-driven sustainability indicator

**Experimental Operations** **May 2015- September 2016**

*Argonne National Laboratory, Lemont, IL*

- Managed budget, experimentation, and project deliverables for 5 concurrent grants from different sponsors and contractors
- Trained workers to safely conduct wet chemistry experiments involving radioactive material

**AP Physics Teacher** **June 2011- June 2014**

*Chicago Public Schools, Chicago, IL*

- Collaborated with other departments to implement new cross-cutting curriculum strategies and technologies
- Designed and taught new courses that emphasized scientific literacy, exploring contemporary science topics, and emphasizing technological changes



---

## PEER REVIEWED PUBLICATIONS

---

4. Wang R, **Oster C**. “Automated Vehicles and Sustainable Cities: A Realistic outlook into the near future.” In Oxford University Press. *Science, Technology, and Innovation for Meeting Sustainable Development Goals*.
3. Kaminski M, **Oster C**, Kivenas N, and Magnuson M. “Effect of Wash Methods on the Decontamination of Fission Products from Building Materials”-*Submitted to the Journal of Environmental Chemical Engineering and in review*
2. Jolin WC, **Oster C**, Kaminski M. “Silicate coating to prevent leaching from radiolabeled surrogate far-field fallout in aqueous environments.” *Chemosphere*, 222, 106-133, 2019.
1. **Oster C**, Kaminski M, Jerden J, Franchini Y, and Magnuson M. “Evaluating Solid Sorbents for Recycle of Wash Waters Containing Strontium and Calcium.” *Journal of Hazardous, Toxic, and Radioactive Waste*, 23(1), 2019.

---

## CONFERENCE PRESENTATIONS AND POSTERS (\*Indicates Poster)

---

5. **Oster C**. “Planning for Autonomous Vehicles in Cities: Similar Problems, Similar Solutions”, Velo-City, June 2019.
- \*4. **Oster C**. “Addressing Infrastructure and Policy Deficiencies to Increase Bicycle Modal Share: Case Study of Washington, DC”, Velo-City, Dublin, Ireland, June 2019.
3. **Oster C**. “Social Dimensions of Transportation Modes and Energy Use: Communal Values for a Sustainable Society”, Eastern Sociological Conference, Boston, MA, March 2019.
- \*2. **Oster C**. “Active Commuter Exposure to Air Pollution Based on Route Choice”, Active Living Research Conference, Charleston, SC, February 2019.
1. **Oster C**. “Using Street Level Air Pollution Data to Assess Exposure in Environmental Justice Communities: A Case Study of Oakland, CA”, University of Delaware Graduate Forum, Newark, DE, April 2018.

---

## REPORTS

---

1. Byrne J, Nyangon J, Taminiau J, Chajes M, Deblauwe H, **Oster C**, Shin S, and Xu J, “Measuring Urban Sustainability Through Common Indicators and Peer City Benchmarking in Delaware”, May 2017.

---

## GRANTS AND FUNDING

---

3. University of Delaware, *Doctoral Fellow*, Christopher Oster, \$28000, 2019
2. University of Delaware, *Summer Doctoral Research Award: Aggregate Air Pollution Measures for Environmental Health Assessment*. Christopher Oster, \$4200. 2018
1. National Science Foundation, *National Research Traineeship Program Graduate Fellowship*. Christopher Oster, \$42,396. 2018.

---

## AWARDS AND HONORS

---

4. 2019 Doctoral Fellow, University of Delaware
3. 2018 Schloss Ettersburg Workshop on Ecohydrology and Water Scarcity, Invited Collaborator, Weimar, Germany
2. 2018 National Science Foundation, National Research Traineeship Program Graduate Fellow
1. 2018 Best Presentation, Graduate Student Research Forum, University of Delaware

---

## COMPUTING SKILLS

---

GREET, MoVES2014, Policy Map, QGIS (Open Source GIS Platform), Python, GitHub, Advanced Excel, LaTeX, Inkscape (Open Source Vector Graphic Software), GIMP (Open Source Raster Graphic Software)

# Catherine “Corrie” Parrish

<https://www.linkedin.com/in/corrieparrish> • [cparrish@uoregon.edu](mailto:cparrish@uoregon.edu) • (412) 523- 6123

---

## Higher Education

### University of Oregon

Master of Community and Regional Planning, expected June 2020

Graduate Certificate in Nonprofit Management, expected June 2020

### Slippery Rock University of Pennsylvania

Bachelor of Arts in English Language and Literature, 2013

## Professional Experience

**Diversity and Inclusion Research Assistant** University of Oregon, Eugene, OR. June 2018-December 2018

- Research best practices in diversity and inclusion for nonprofit associations
- Report editor for research findings
- Develop toolkit to implement best diversity and inclusion practices in nonprofit associations

**Arena Parking Monitor Research Assistant** University of Oregon, Eugene, OR. January 2018-March 2018, January 2019- March 2019

- Administer transportation options survey to attendees at the Matthew Knight Arena
- Traffic count research at intersections near the arena
- Parked car count research in areas identified near arena

**Equity Initiative GE** University of Oregon, Eugene, OR. October 2017- Current

- Research best practices in diversity, inclusion, and equity
- Develop cultural competency survey for undergraduates
- Lead focus groups, meetings, and trainings for staff and students
- Coordinate event planning
- Support communications, such as weekly newsletter
- Build policies around D & I initiatives, such as our Brave Space Action Plan Policy

**Outdoor Recreation Assistant** Five Rivers MetroParks, Dayton, OH. August 2016- May 2017

- Researched and developed National Underground Railroad Bicycle Alternate Route
- Developed “Walking Field Trip” for Dayton students to visit Underground Railroad sites
- Coordinated the International Trail Symposium’s (ITS) 2017 Emerging Leader Program
- Co-developed diversity and inclusion workshop specific to trail professionals
- Developed National Bike Challenge between Five Rivers MetroParks and Cleveland MetroParks
- Event planning for local, state-wide, and national outdoor events, including Bike to Work Day

**Naturalist Assistant** Notre Dame Mission Volunteers Americorps at Five Rivers MetroParks, Dayton, OH. February 2016-July 2016

- Research and development for “Connect to Nature” Site Certifications and surveys
- Land-use planning for living interpretation site at Twin Creek MetroPark and Hopewell Earthworks site

**Transportation Outreach Coordinator** Americorps VISTA at Valle de Oro National Wildlife Refuge (NWR), Albuquerque, NM • February 2015– February 2016

- Coordinated \$12 million Federal Lands Access Program (FLAP) with local and Federal partners for street infrastructure improvement, including off road multi-modal trail development to gateway of the Refuge
- Research for economic impact report specific to the Refuge and outdoor recreation
- Grant writing to support development, such as National Park Service “Ticket to Ride” grant program
- Collaborated with Safe Routes to School and Friends of Valle de Oro to extend bike trail to Refuge
- Facilitated YMCA of Central New Mexico’s “Let’s Move!” Summit
- Event planning including Bike to Work Day, National Get Outdoors Day, and National Trails Day

**SCA Trail Town Outreach Corps Fellow** Trail Town Program Greensburg, PA • April 2014–

February 2015

- Led research on economic impact of long distance bike corridors in identified “Trail Towns”
- Doubled the number of local businesses in “Trail Town Certified,” business development program
- Collaborated with the local and state partners on active transportation projects and economic development initiatives along major bike trail corridors
- Grant writing for beautification and interpretation projects in communities along major bike trail corridors
- Planned and supervised community beautification volunteer days in communities along bike trail corridors

**Editor and Outreach Specialist** GFX Advertising Slippery Rock, PA • May 2013– March 2014

- Organized events for clients of GFX Advertising
- Edited articles, ads, and press releases

**Outreach Coordinator/Work Study Student** Robert A. Macoskey Center for Sustainable Education and Research at Slippery Rock University • November 2011– May 2013

- Organized sustainability-related events on campus including the annual Earth Day Festival, documentaries, discussion panels, and open houses for RAMC
- Managed community gardens and the market garden used for the local farmers’ market and animal care

## **Honors and Presentations:**

- Scholarship recipient for the 2017 National Bike Summit in Washington, D.C
- Recognized as an Emerging Leader at the International Trails Symposium 2015 in Portland, Oregon
- Recognized as a Trail Apprentice at the Partnership for National Trails System Conference 2015 in Franklin, Tennessee
- Presented, “Accessibility for Environmental Justice and a Buck in Your Pocket” at the Partnership for National Trails Systems Conference 2015 in Franklin, Tennessee
- Co-presented “Trail to Town for Economic Impact” at Pro Walk, Pro Bike, Pro Place International Conference 2014 in Pittsburgh, PA

## **Committees:**

- Committee member of PPPM Communications Committee
- Committee member for the 13<sup>th</sup> Avenue Street Redesign Concept Design

## **Leadership:**

- President of LiveMove, UO Student Transportation Advocacy Group
- Director of Student Engagement for APA Women in Planning Division

**Erin M Robartes**  
781-898-4710  
emrobartes@gmail.com

## Education

---

University of Virginia, Charlottesville, VA

- *Doctor of Philosophy: Civil Engineering - Transportation (Expected Graduation 2020)*
  - Research experience includes: Barriers to bicycling infrastructure survey, bicyclist perceived safety synthesis study, bicyclist perceived safety study through the use of virtual reality.
- *Masters of Science: Civil Engineering – Transportation (August 2017)*
  - Thesis Title: Virginia Bicycle Data: Automobile and Bicycle Crash Safety Analysis and Virginia Attitudinal Safety Survey

University of Connecticut, Storrs, CT (Fall 2011 - May 2015)

- *Major: Bachelor of Science in Civil Engineering, Minors: Environmental Engineering, Mathematics*
  - Graduate of the Honors Program
  - Thesis: Implementation and Effectiveness of Bicycle Boulevards

## Awards and Fellowships

---

Eno Future Leaders Development Conference (2019)

UVA Engineering Distinguished Fellowship (2017-present)

Graduate Assistantship in Areas of National Need (GAANN) Fellow (2017-present)

Dwight D. Eisenhower Transportation Fellowship (2016-2017)

Civil and Environmental Engineering Graduate Research Symposium Award (2017)

## Involvement

---

Graduate Engineering Student Council (2017-present)

- *Vice President (2018-2019)*
- Student lead group that organizes academic, social, and outreach events to foster graduate student success.
- Each year the graduate engineering student council organizes the University of Virginia Engineering Research Symposium (UVERS), graduate engineering student recruitment weekend, and numerous academic (resume workshops, abstract writing workshops etc.) and social events (graduate student winter formal, welcome back fall bbq, etc.) throughout the year.

Institute of Transportation Engineers and Intelligent Transportation Society of Virginia at UVA (2016-present)

- *Vice President (2016-2017, 2017-2018, 2018-2019)*
- A graduate transportation engineering organization that facilitates collaboration between transportation engineers and builds contact with professional ITE members.
- Annual events include inviting transportation professionals and UVA alumni to speak to current transportation students as well as participating in the annual ITE Traffic Bowl competition.

## Work Experience

---

Department of Civil and Environmental Engineering, University of Virginia, Charlottesville, VA (2019)

- *Graduate Teaching Assistant – Transportation Infrastructure Design Lab*
- Teaching AutoCad Civil 3D and transportation geometric design, assigning homework and facilitating extensive group project work among undergraduate students.

Department of Civil and Environmental Engineering, University of Virginia, Charlottesville, VA (2016)

- *Graduate Teaching Assistant – Applied Mathematics Ordinary Differential Equations*
- Tutored students in the applied math workshop, assisted the professor during class exercises, graded homework, and proctored exams.

Department of Civil and Environmental Engineering, University of Connecticut, Storrs, CT (2014-2015)

- *Undergraduate Academic Assistant – Soil Mechanics and Civil Engineering Materials*

- Assisted with duties relating to soil mechanics and civil engineering materials classes including lab setup, lab sample analysis, and grading.

---

### **Publications**

Robartes, E., and T.D. Chen. "Crash histories, safety perceptions, and attitudes among Virginia bicyclists." *Journal of Safety Research* 67: 189-196, 2018.

Robartes, E. and T. D. Chen. "The Effect of Crash Characteristics on Cyclist Injuries: An Analysis of Virginia Automobile-Bicycle Crash Data." *Accident Analysis & Prevention* 104: 165-173, 2017.

---

### **Conference and Symposium Presentations**

Robartes, E. and T.D. Chen. (2019) "Assessing Bicyclists' Perceived Safety, Risk, and Comfort – State of the Literature" Paper presented at the Transportation Research Board Annual Meeting, Washington, DC.

Robartes, E., E. Chen, T.D. Chen, P. Ohlms. (2019) "Assessment of Local, State, and Federal Barriers to Implementing Bicycle Infrastructure: A Virginia Case Study" Paper presented at the Transportation Research Board Annual Meeting, Washington, DC.

Robartes, E., E. Chen, T.D. Chen, P. Ohlms. (2018) "Assessment of Local, State, and Federal Barriers to Implementing Bicycle Infrastructure: A Virginia Case Study" Paper presented at the International Cycling Safety Conference, Barcelona, Spain.

Robartes, E., and T.D. Chen. (2018). "Crash Histories, Safety Perceptions, and Attitudes among Virginia Bicyclists" Paper presented at the Transportation Research Board Annual Meeting, Washington, DC.

Robartes, E., and T.D. Chen (2017). "Bicycle and Automobile Safety Perception Analysis" Presented at the International Cycling Safety Conference, Davis, CA.

Robartes, E. (2017). "Virginia Automobile and Bicycle Crash Safety Analysis" Paper presented at the University of Virginia Civil and Environmental Engineering Graduate Research Symposium, Charlottesville, VA.

Robartes, E. and T.D. Chen (2017). "Virginia Automobile and Bicycle Crash Safety Analysis" Paper presented at the Transportation Research Board Annual Meeting, Washington, DC.

Robartes, E. and T.D. Chen (2016). "Virginia Automobile and Bicycle Crash Safety Analysis" Paper presented at the Pedestrian and Bicycle Safety UTC Spotlight Conference, Washington, DC.

Robartes, E. (2016). "Virginia Automobile and Bicycle Crash Safety Analysis" Work presented at the Virginia Civil and Environmental Engineering Graduate Research Symposium, Charlottesville, VA.

---

### **Other Professional Development Experiences**

Graduate of the Aalto University Summer School on Transportation in Helsinki, Finland (2018)

Co-chair of the recruitment committee for the Department of Civil and Environmental Engineering at UVA (2017)

Participated in the Society of Women Engineers Annual Conference, Philadelphia, PA (2016)

Participated in Transportation Camp, Pittsburgh, PA (2016)

---

### **Graduate Coursework**

Transportation Data Analysis and Modeling, Traffic Operations, Geographic Information Systems, Transportation Economics and Finance, Transportation Planning, Transportation Safety, Exploratory Data Analysis, Sustainable Transportation

---

### **Skills**

Proficient with Matlab, Microstation, Civil3D, GIS, SPSS, STATA, and R

# Peter C. Smet

(310) 691-9480 | pcs93@cornell.edu | <https://www.linkedin.com/in/p-smet/>

## EDUCATION

### Cornell University Institute for Public Affairs

Ithaca, New York

*Master of Public Administration, GPA: 3.73; Fellowship Award: \$15,000 per year*

May 2020

- Concentration in Science, Technology and Infrastructure Policy; Certificate in Infrastructure Finance and Policy
- Relevant Coursework: Infrastructure Financing (Teaching Assistant), Financial Modeling, Financial Statement Analysis, Desktop Modeling, Regulation and Infrastructure Policy, Evaluation of Capital Investment Projects, Public Systems Modeling

*Bachelor of Science, Urban and Regional Studies GPA: 3.76 in Major*

May 2014

## WORK EXPERIENCE

### Victor Private Jet Charter

New York, NY

*Account Manager*

June 2017 – July 2018

- Held the highest overall booking value of any account manager in Victor's initial US hiring class (\$1,400,000)
- Routinely hit aggressive revenue and margin targets on monthly and quarterly basis
- Quarterbacked recovery process with different stakeholders after aircraft mechanical failure
- Responded tactically to multitude of client objections during the sales process
- Developed touchpoint schedules to fully manage every customer account regardless of flying schedules
- Created strategic presentations to sell against key competitors such as Delta Private Jets and Magellan Jets
- Made over 140 daily touchpoints minimum to clients or prospects through phone, email, text or WhatsApp
- Implemented strategic data driven sales techniques derived from Salesforce dashboards and various KPIs
- Mined Victor's database of over 100,000 cold leads to generate additional sales revenue

### Big Barn Storage

Various Locations

*Part-time Consultant*

April 2016 – May 2017

- Built financial model assessing viability of second storage location for family storage business in Wisconsin
- Visited 12 competing businesses within a 20-miles radius of proposed site to assess occupancy and unit sizes
- Synthesized research and model output into comprehensive feasibility study

### Prager & Co., LLC

New York, NY

*Public Finance Investment Banking Analyst*

June 2014 – March 2016

*Credit Analysis*

- Performed ratio analysis for a diverse range of higher education clients based on current and past financials
- Constructed client debt portfolio models for public and private universities with varying degrees of leverage
- Interpreted Moody's and S&P's revised higher education rating methodologies to model credit ratings in Excel
- Developed extensive credit packages for not -for-profit clients to present to banks

*Bond Sizing*

- Lead analyst for modeling bond sizing cash flows following client dialogues
- Acted as transaction manager for not-for-profit direct placement financing

*Business Development*

- Created more than ten tailored presentations to attract new financial advisor business
- Spearheaded teams for both higher education and underwriting RFPs to formulate specific work plans
- Assembled weekly market updates using Bloomberg, sent out to over 20 current and dozens of potential clients

## SKILLS AND VOLUNTEER WORK

### Skill Development

- Stata, @RISK Statistical risk software, Salesforce, DBC Finance, Microsoft Office, Dale Carnegie Graduate, basic Spanish skills
- Completed Wall Street Prep's financial modeling course, including DCF, M&A, Valuation and LBO

### Volunteer Work/Interests

- Developed Excel metrics to monitor effectiveness of Onward Scholars scholarship program in Downey, CA
- Board member of iMentor Young Executive Board and Reclaim Childhood
- Wisconsin Badgers Football, Traveling, SCUBA, Running

### Travel

- Visited Lebanon and Jordan to see Reclaim Childhood's operation firsthand and meet refugee girls
- Ran in the annual Dead2Red run, a 242-kilometer relay road race from the Dead Sea to the Red Sea
- Attended an intensive, ten-day silent Vipassana meditation retreat in Kathmandu, Nepal

# ELIZABETH ZUREK

1517 Mercer Rd Haymarket VA, 20169 · 518-354-3181

· [elizabeth.zurek@alpa.org](mailto:elizabeth.zurek@alpa.org) ·

## EXPERIENCE

JANUARY 2018 – PRESENT

**ASSOCIATE SAFETY PROGRAM SPECIALIST, THE AIR LINE PILOTS ASSOCIATION**

- Organization's subject matter expert for ASAP, FOQA, SMS, and other data collection and sharing programs at individual air carriers and at a national safety program level
- Company representative for the Issues and Analysis Team for the Aviation Safety Information Analysis and Sharing (ASIAS) System
- Share the responsibility of responding to accident/incident 24-hour hotline
- Responsible for Risk Management Course and Safety Leadership school hosted by the organization biannually
- Support the organization's Safety Council with representatives from 33 different airlines

## EDUCATION

DECEMBER 2020

**MASTERS IN AERONAUTICS, EMBRY RIDDLE WORLDWIDE**

- 4.0 GPA
- Dual specializations in safety systems and human factors

DECEMBER 2017

**BACHELORS IN AERONAUTICAL SCIENCE, EMBRY RIDDLE AERONAUTICAL UNIVERSITY**

- 3.2 CGPA
- Business Management Minor
- Dean's List (Fall 2016, Spring 2017, and Fall 2017)

## SKILLS

- Experience interacting with government agencies/contractors for safety improvement
- Received accident investigation training
- Proficient in current FARs and other aviation regulations
- Proficient in Microsoft Word, Power Point, and Excel
- Ability to understand legal contract language and terminology

## FLIGHT EXPERIENCE

**TOTAL HOURS: 230**

- Multi engine commercial land license with instrument rating
- Experienced in glass cockpit/G1000 systems