

BRIAN RHINDRESS

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

H. John Heinz III College, School of Public Policy and Management

May 2020

Master of Science in Public Policy and Management- Data Analytics

Cum. GPA: 3.86/4.0

University of Pittsburgh

Pittsburgh, PA

Swanson School of Engineering

May 2016

Bachelor of Science in Computer Engineering

Cum. GPA: 3.96/4.0

SKILLS

Software Java, Python, R, Stata, Microsoft Excel, ArcGIS, MATLAB, C

Courses Applied Economics, Urban and Regional Economic Development, Poverty and Inequality
Database Management, Econometrics, Multivariate Calculus, Differential Equations
Energy Finance, Data Mining, Operations Research, Financial Analysis of Companies
PhD Microeconomics, Macroeconomics, Public Finance, Machine Learning, Big Data Ind. Study

PROFESSIONAL & LEADERSHIP EXPERIENCE

Research Assistant

April 2019 - May 2020

CMU's Block Center for Technology and Society, Advisor: Rick Stafford

- Manage a university-wide partnership between CMU and Allegheny County Department of Human Services (DHS)
- Facilitate research, project opportunities, and events between CMU researchers and DHS practitioners
- Research and develop cases on PA's economic development history for course, *Engineering Public Policy Change*.

Lauble Fellow in Economic Development

May 2019 - August 2019

Heinz Center for Economic Development & Allegheny County Economic Development

- Designed programming for the Braddock Business Community Initiative, a regenerative economic development effort in one of Allegheny County's distressed communities
- Reviewed and supported the awarding of over \$2M in grants for targeted homelessness programs
- Prepared and presented policy briefs on equitable economic development to department leadership

Site Manager, Sto-Rox School District

June 2017 - April 2019

Communities in Schools of Pittsburgh and Allegheny County (CISPAC)

- Negotiated an inaugural partnership between CISPAC and the Sto-Rox School District
- Crafted and implemented a comprehensive district-wide "Community School" strategy by managing a local network of 25+ partner organizations and facilitating executive-level collective impact planning
- Initiated district grant-writing and staff trainings yielding \$500,000 from local, state and national sources (10 successful grants, 3 additional fundraisers)

External Engagement Manager

September 2018-May 2020

Heinz College's Council for Diversity, Richness, and Inclusion

- Developed campus-wide relationships with students and administration to advance Diversity and Inclusion
- Co-curated a bi-weekly newsletter of campus and community initiatives to promote student and faculty engagement
- Supported the growth of a campus-wide student advocate network (100+ active students)

Coro Fellow in Public Affairs

August 2016 - May 2017

Coro Pittsburgh Center for Civic Leadership

- Selected for premiere experiential leadership training program to prepare diverse, talented, and committed individuals for effective and ethical leadership in the public affairs arena
- Completed inter-sector placements with e360 Technologies (startup), The McKees Rocks Community Development Corporation (non-profit), the Sto-Rox School District (government), and engaged regional leaders in key domains (immigration, criminal justice reform, housing, economic development)

Social Robotics Intern

May 2015 - August 2015

National University of Singapore

- Performed summer research under the guidance of Shuzhi Sam Ge.
- Developed the infrastructure for a conversational social robot using Android OS, and CMUSphinx Open-Source Speech Recognition Toolkit

President

Summer 2014 - August 2015

Design Hub, Swanson School of Engineering

- Design Hub is an interdisciplinary, student-powered organization that gives student designers practical experience in making medical devices with real physician and graduate mentors (75 active members, 15+ design teams).
- Helped re-brand club and grew from 4 to 15+ student led design teams, expanded interdisciplinary membership
- Maintained relationships with Coulter, Center for Medical Innovation grant programs, and university administration

User Experience Intern

June 2014-August 2014

General Motors Advanced Technical Center in Israel

- Managed summer long project testing effectiveness and viability of a new driver's seat technology
- Designed and conducted full research study on 25 test subjects using a driving simulator, MATLAB, and Arduino
- Presented final findings for U.S. GM management
- Paper "Haptic seat for automated driving: preparing the driver to take control effectively" published by Association for Computing Machinery, 2015

University Innovation Fellow

September 2013 - May 2016

University of Pittsburgh & National Collegiate Inventors and Innovators Alliance

- Received six-week online training and initiation at Stanford's d.School, designed to empower fellows to deliver product development and innovation resources to home University
- Mapped University of Pittsburgh campus innovation landscape for presentation to school leadership
- Generated and hosted engineering workshop series on design-thinking, makerspaces, PCB-building, and more
- Co-created and served as inaugural Teaching Assistant for a project-based engineering course, "The Art of Making"

SELECTED PROJECTS

Expanding Transit Access in the Mon Valley

March 2019 - Present

Heinz College and Pittsburghers for Public Transit

- Co-authored a transportation and economic development-focused memo through community-based research course
- Inaugural “Beyond the Busway Fellow” collecting transit need data with participatory research team
- Scoped, proposed, and manage Origin-Destination model systems capstone project

Evaluation of Racial Bias in the COMPAS Recidivism Assessment Tool

March - May 2019

Data Mining Course

- Re-designed, implemented, and validated machine learning-based models for predicting recidivism, based on Broward County’s COMPAS algorithm
- Evaluated predictive tool for implicit bias across several dimensions (race, gender, geography)

Mechanical-Electrical Cortical Spreading Depression Simulator

January 2016 - April 2016

Senior Design Project Consultancy for Cerebroscope, Inc.

- Created a mechanical-electrical device that simulates the scalp surface voltage of a brain surface cortical spreading depression (CSD) for use in bench-testing.
- Research of the causes, prevalence, and characteristic features of CSDs, requirement specifications, prototype design, verification & validation, fabrication, testing and quality assurance.
- Project won first place in “Product Realization” course category at the Senior Design Expo 2016.

BOARDS, AWARDS & SOCIETIES

CMU Graduate Student Association Student Leadership Award	2020
CMU University Leadership Student Advisory Committee (ULSAC) Representative	2019
Pittsburghers for Public Transit Beyond the Busway Fellow	2019
Stephen Lauble Economic Development Fellow	2019
Heinz College Strategic Diversity and Inclusion Strategic Planning Committee Representative	2019
Heinz College Council for Diversity, Richness, and Inclusion Board - Community Engagement Chair	2018
Coro Fellowship in Public Affairs	2017
UPitt University Scholar (top 2% overall university class)	2016
G. Alec Stewart Honors College Student Achievement Award	2015
QIT Health Innovators Fellow	2015
University Innovation Fellow	2014
II-VI Foundation Industrial Scholarship	2014
Israel Excel Fellowship	2014
Tau Beta Pi Engineering Honor Society	2013
University of Pittsburgh Honors College Scholarship	2012