BRIAN RHINDRESS

610 585 5866 ◇ bjrhindress@gmail.com

EDUCATION

Carnegie Mellon University Pittsburgh, PA
H. John Heinz III College, School of Public Policy and Management May 2020 (Expected)
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 - Present
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-Present
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 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
University Scholar (top 2% overall university class)	2016
G. Alec Stewart Honors College Student Achievement Award	2015
QIT Health Innovators Fellowship	2015
University Innovation Fellow	2014
II-VI Foundation Industrial Scholarship	2014
Israel Excel Fellowship	2014
Tau Beta Pi Engineering Honor Society	2013
University Honors College Scholarship	2012