

Angie Shen

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EDUCATION

Duke University, Durham, NC

B.S. in Statistical Science; B.A. in Literature; Minor in Computer Science

Expected December 2017

GPA: 3.81/4.00

Honors: Sirena WuDunn Memorial Scholarship; ASCEND Women Scholar; Dean's List (Fall 2014; Fall 2015)

Coursework: Bayesian Statistics (PhD), Machine Learning (PhD), Spatial Statistics (PhD), Basic Analysis (PhD), Statistical Computing, Regression Analysis

Technical Skills: R, Python, SQL, SparkR, MapReduce, Unix, Git, Tableau, MS Excel/Access

RESEARCH EXPERIENCE

Predicting Sepsis Patient Deterioration, *Research Assistant*, Duke University Summer 2016

- Assist Dr. Rebecca Steorts, Professor of Statistics and Dr. Ben Goldstein, Professor of Biostatistics
- Utilize Duke Electronic Health Records data to develop a robust risk model for detecting patient deterioration
- Apply Cox proportional hazard model and Bayesian nonparametric models to patient vitals and lab data

Scalable Algorithms for Nonparametric Clustering, *Independent Study*, Duke University Spring 2016-present

- Explore scalable algorithms for Bayesian nonparametric partitioning models instructed by Dr. Rebecca Steorts
- Code Dirichlet Process, Chinese Restaurant Process and other Bayesian nonparametric models in clustering

Government Transparency of Information, *Bass Connections Research*, Duke University Fall 2015-present

- Analyze Durham residents socioeconomic survey data with R and Excel to compare across counties
- Visualize relationships between select variables with Tableau and Excel
- Report policy recommendations to Durham City Council based on analysis and visualization of data

Centre for Health and Wellbeing, *Research Intern*, Belfast, UK Summer 2015

- Conducted research on the mental health of caregivers in the UK under Dr. Kate Lavery at the non-profit
- Collected and analyzed data on client mental health needs; processed client database using Excel and Access; designed a survey, interviewed 85 clients and analyzed results using Qualtrics, Access and Excel; interpreted tables and graphs, drew conclusions from cross-tabulated results and produced a 22-page report
- Secured additional funding of £16000 from Belfast Health & Social Care Trust following report publication

PROJECTS

Twitter and 2016 Presidential Election

- Make word cloud for presidential candidates based on data scraped from Twitter API
- Model the relationship between word frequencies and regional election results

DataFest 2016: Recommender System for Ticketmaster.com

- Cleaned and summarized 4gb of concert ticket purchase data and user website engagement data
- Built a concert recommender system for Ticketmaster.com based on affinity analysis

Crime and Law Enforcement

- Analyzed relationship between crime and police using complex national survey datasets
- Applied multiple regression, logistic regression, propensity score matching and time series analysis techniques

LEADERSHIP EXPERIENCE

The Other Blog, *Founder, President & Contributor*, Duke University Fall 2014-present

- Founded The Other, a blog devoted to topics on identity and social justice such as gender, race and sexuality
- Develop and execute fundraising, recruiting, marketing, outreach and operations strategies
- Lead biweekly editing and executive meetings; edit and write articles on a monthly basis; maintain website
- Planned and launched annual multimedia essay contest to gain quality submissions and publicize the medium
- Successfully recruited writers, publicized the platform and established connections with campus organizations

Duke East Asia Nexus, *President*, Duke University

Spring 2015-present

- Plan and execute events and programming focused on East Asian affairs, such as the Duke-UNC China Leadership Conference, panel discussions and film screenings
- Research and formulate topics; contact and communicate with guest speakers; organize publicity campaigns; facilitate communication and cooperation between guests, members and Asia-related institutes at Duke
- Apply for funding and grants, manage an annual budget of \$8000 and carry out administrative tasks

Center for Multicultural Affairs, *Student Programming Manager*, Duke University

Spring 2014-present

- Produce and facilitate programming around multicultural affairs, such as Monday Motivations discussion series and Unity Through Diversity Symposium
- Brainstorm topics and format for programs; facilitate communication between participating parties; publicize event through social media and email outreach; evaluate participant feedback for improvement

SKILLS & INTERESTS

Language: Chinese (Native), English (Proficient)

Interests: Journalism (NYTimes Student Council), Music (Duke Asian Music Ensemble; Guzheng), Dance(Hip-Hop)