Devika Godbole

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EDUCATION

The University of Texas at Austin, College of Natural Sciences, Austin, TX
B.S. in Mathematics and Biology (Computational)
GPA: 3.55 Expected May 2021

Relevant Coursework:
‣ Probability, Scientific Computation in Numerical Analysis, Linear Algebra, Applied Regression/Time Series Analysis, Mathematical Statistics, Applied Statistics
‣ Biostatistics, Principles of Computational Biology, Genetics, Neural Systems I, Autism Spectrum Disorder, Computational Biology/Informatics, The Doctor – Patient Relationship: Healthcare in America

HONORS AND RESEARCH SCHOLARSHIPS

University Honors, The University of Texas at Austin (Fall, 2017)
University Honors, The University of Texas at Austin (Spring, 2017)
UT Austin Freshman Research Initiative Summer Research TIDES Fellowship (2018)
NHLBI/NIH Colorado Summer Institute in Biostatistics Scholarship (2019)

RESEARCH EXPERIENCE

The University of Texas Health Science Center at Houston, School of Public Health
Mentors: Steven Kelder, Dale Mantey
Virtual Research Assistant/Intern, May 2020 – Present
Assisted with implementing interventions for e-cigarette use prevention in Texas adolescents. Analyzed e-tobacco use data from the CDC's National Youth Tobacco Survey (secondary data analysis), co-authored two abstract submissions for Society for Research on Nicotine and Tobacco conference, and working on manuscript for one of the two, *Observing Peers Vape on Campus is Associated with E-Cigarette Use and Susceptibility among Middle and High School Students*.

Colorado Summer Institute in Biostatistics (CoSIBS), Colorado School of Public Health
Mentors: John Kittelson, Brandi Wagner
Summer Research Student, June 2019 – July 2020
Gained insight into advanced statistical approaches, principles, and applications in biomedical and clinical research projects through an intensive summer program funded by the National Institutes of Health. Analysis of cluster-randomized trial design based on case study of "*Efficacy and risk of harms of repeat ivermectin mass drug administrations for control of malaria*", using permutation tests, t-tests, GEE, GLM, and GLMM. Created and presented poster at CoSIBS symposium.

DIY Diagnostics, Freshman Research Initiative, The University of Texas at Austin
P.I.: Andrew Ellington, R.E.: Timothy Riedel
Undergraduate Researcher, May 2020 – Present
Participated in the Freshman Research Initiative laboratory that focuses on developing diagnostic tests and building virtual interfaces to tap into the power of medical and social data sets for improving patient health. Contributed to a research project to analyze keystroke data of patients suffering from Parkinson's Disease to explore keystroke analysis as an alternative diagnostic technique for neurodegenerative diseases. Mentored students to develop skills in water quality testing, qPCR, Javascript/HTML based mobile application coding, 3D modeling and printing, and data analysis in R/RStudio.

EMPLOYMENT

Undergraduate Grader and Teaching Assistant, The University of Texas at Austin
August 2018 – Present
Functioned as a liaison between the professor and students by being a point of contact for questions about content for various courses through Calculus III. Managed and provided guidance to students through detailed feedback on their assignments. Assisted with approximately 500+ students over the course of three years.

Instructor, Mathnasium of Coppell
August 2015 – August 2017
Instructed mathematics to students ranging from second to twelfth grade. Designed individualized study plans catered to students particular learning needs. Communicated effectively with parents and students about their academic progress.

PUBLICATIONS/PRESENTATIONS

Mantey D, **Godbole D**, Ruiz F. Association between observing peers vaping/e-cigarette use on campus and susceptibility in middle school and high school students. 2021 Annual Meeting, The Society for Research on Nicotine & Tobacco, February, 2021. (abstract)

Mantey D, Ruiz F, **Godbole D**. Association of harm perceptions and tobacco use declines with grade: findings from a nationally representative sample of middle and high school students, 2016-2018. 2021 Annual Meeting, The Society for Research on Nicotine & Tobacco, February, 2021. (abstract)

Godbole D, Castaneda R, Gerstch W, Stockton B. Cluster Randomized Trial Design: Case Study of the RIMDAMAL Trial. CoSIBS Symposium, Aurora, CO, July, 2019. (oral presentation)

Godbole D, Li C, Patel S. Keystroke Analysis for Identifying Parkinson's Disease in Typing Patterns. Undergraduate Research Forum, Austin, TX, April, 2019. (poster)

LEADERSHIP AND SERVICE

Texas Bluebonnets
Historian, Treasurer, and Senior Advisor, January 2018 – May 2020
Served as multiple positions on the executive board of Texas Bluebonnets, a group of women who support UT Austin and the Austin community as a whole based on five core pillars: Character, Leadership, Academics, Service, and Spirit. Photographed events, organized scrapbook, created recruitment videos, managed finances, and advised later executive board members.

UT Indian Cultural Association
JHALAK Funding Director and Graphic Designer, May 2018 – December 2018
Managed the raising, budgeting, and expensing of $30,000 for Jhalak, an annual national Bollywood fusion dance competition. Directed fundraising efforts aimed at corporate sponsorship and university officials. Designed all the promotional advertising and merchandise for the event.

Mathhappens
Volunteer, October 2017 – Present
MATHHAPPENS is a local non-profit that facilitates developmental math experiences outside of the classroom through interaction and engagement with the community. Facilitated and modeled the ways math shows up in nature, art, and the rest of life with kids at Austin museums, outdoor gardens, and events.

Girlstart
Volunteer, October 2017 – Present
Girlstart is a non-profit that facilitates developmental STEM experiences for young girls outside of the classroom through interaction and engagement with the community. Helped make Girlstart events run smoothly by assisting with demos/workshops and by mentoring girls during lunch breaks.

SKILLS

Technical: R/Studio/Bioconductor, Shiny, Python, Java, RNA-seq high dimensional analysis, C++, Powerpoint, Access, Javascript, BLAST, Latex, Tableau, Technical Writing, Data visualization, Photography, Adobe Photoshop, Adobe Premiere Pro

Statistical: Linear regression, Logistic regression, Multivariate regression, Principal Components Analysis, k-means clustering, Random forest, Survival analysis, LASSO, k-fold Cross-Validation, Time series, Mixed effects models

Laboratory: Gel electrophoresis, PCR, crystallisation, western blot, ELISA, DNA extraction

Soft skills: Worked with many researchers and students from diverse fields. Delivered presentations of research work.

LANGUAGES

Marathi (fluent), Spanish (conversational), Hindi (conversational)