

Devika Godbole

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EDUCATION

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

Expected May 2021

Relevant Coursework:

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

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 (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.

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

Funding Director and Graphics Designer, November 2017 – November 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.

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.

MEMBERSHIP

Texas Bluebonnets (2017 – Present)
Women in Natural Science (2017 – Present)
Mathhappens (2017 – Present)
Girlstart (2017 – Present)
Statistics Without Borders (2018 – Present)

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, Time series, Mixed effects models

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

Soft skills: Interacted with many researchers from diverse fields. Delivered presentations of research work.

LANGUAGES

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