Rik Mukherjee

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EDUCATION

University of California, Los Angeles | Los Angeles CA

Bachelor of Sciences, Statistics and Data Science **Expected Dec 2025**

Relevant Courses: Computational Statistics and Statistical Programming with R, Python & Technologies for Data Science, Programming with C++, Data-Driven Mathematical Modeling

Activities & Student Organizations: Bruin Sports Analytics

TECHNICAL SKILLS

Programming Languages: Python, R, C++, SQL

Spreadsheets: Excel, Google Sheets

Operating Systems: Linux (Ubuntu)

WORK & PROFESSIONAL EXPERIENCE

Sensable, Inc. | **Software Engineer Intern** | **Fremont, CA** **Jun 2024 - Aug 2024**

- Developed automated data extraction pipelines for CAD file using FreeCAD and Python
- Built and tested AI-based applications, including RAG agent, similar image querying, and text-to-image querying systems

UCLA REC Competitive Sports | **General Manager & I.M. Official** | **Los Angeles, CA** **Oct 2022 - Present**

- Officiate intramural sports games across basketball, flag football, soccer, volleyball, and other sports
- Oversee logistics, eligibility checks, and conduct policies for day-to-day intramural programming
- Manage event setup, cleanup, and logistics for UCLA Club Sports

RESEARCH EXPERIENCE

Department of Biostatistics | **Student Research Assistant** | **University of Michigan** **May 2021 - Nov 2021**

- **Professor: Mousumi Banerjee**
- Analyze trends in NIFTP diagnoses following recently updated diagnostic criteria
- Created data visualizations and statistical analyses using R and SEER cancer registry data to understand demographic disparities

PAPERS & PROJECTS

Do NBA Season Series Always Determine Playoff Series Outcomes? | **Bruin Sports Analytics** **Jun 2023**

- Conducted statistical analysis using t-tests and created data visualizations to explore correlations between regular season and playoff series outcomes
- Identified discrepancies caused by key player injuries and unmet point total expectations

Variation in the diagnosis of noninvasive follicular thyroid neoplasm with papillary-like nuclear features (NIFTP) |

Co-Author | *The Journal of Clinical Endocrinology & Metabolism*, **Volume 107, Issue 10, October 2022, Pages e4072–e4077**

- Analyzed trends in NIFTP diagnoses post-2017 reclassification, collaborating with medical doctors and professors
- Compared demographics of thyroid cancer patients (2000–2019) to NIFTP patients (2017–2019), concluding that vulnerable groups are disproportionately affected