

DYUTHI DINESH

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ABOUT ME

Researcher and Data Analyst. My research interests encompass mental health, social impact, psychology, and gaming. I enjoy Quantitative Research, Model Building, and evaluation. My work experience has entailed leading multiple projects in data analysis and statistical methods in a fast-paced workplace in digital mental health, working with insurers and medical data. I have published two papers in this field.

SKILLS

Research:	Mixed Methods, Quantitative, Qualitative, Statistical Analyses, IRB
Programming:	Python (scikit-learn, scipy, seaborn), R (tidyverse, ggplot2), SQL, MongoDB
Software & Tools:	AWS, Databricks, SPSS, Microsoft Office, Excel, Qualtrics, Git

EDUCATION

Master of Arts in Quantitative Methods in Social Sciences, Columbia University	<i>September 2024 - Current</i>
<ul style="list-style-type: none">Courses: Machine Learning, Natural Language Processing, Advanced Quantitative Methods, Modern Data Structures, Social Network Analysis, Applied Data Science (AWS, Databricks, Github, SQL). GPA: 4.00	
Bachelor of Science in Psychology (Hons.), University of British Columbia, Canada	<i>September 2018 - April 2022</i>
<ul style="list-style-type: none">Dean's List; Member of "Society of Scholars"; Grade: 3.99 or 94.9%.	

WORK EXPERIENCE

Data scientist/ML Engineer, Mental Health Venture, Columbia University (Practicum)	<i>January 2025 - Current</i>
<ul style="list-style-type: none">Working on leveraging Machine learning and Natural Language Processing techniques to develop an AI-based mental health intervention.	
Research Assistant, Cognitive Media Lab (University of California, San Diego)	<i>January 2025 - Current</i>
<ul style="list-style-type: none">Analyzed with quantitative and qualitative data through rigorous modeling techniques to pinpoint key predictors driving the spread of misinformation on social media platforms regarding COVID-19.	
Teaching Assistant, Natural Language Processing, Columbia University	<i>January 2025 - Current</i>
Research Assistant, Political Science Department at Columbia University	<i>November 2024 - Current</i>
<ul style="list-style-type: none">Project: Studying the influence of bot utilization by politicians on social media, and its effects on contribution and political outcomes. Web-scraped candidate contributions from FEC.	
Clinical Researcher, Research and Clinical Development, Wysa (AI conversational agent)	<i>September 2022 - July 2024</i>
<ul style="list-style-type: none">Efficacy and usage testing using mixed-method approaches and Randomized Controlled Trials (RCTs) using qualitative and quantitative data analysisStatistical testing- sample size calculations, regression models, analyses of variance, logistic regressions, and simple descriptive and inferential statistics for large-scale datasets.Data Analysis for Reports & Client reports: Global Employee Mental Health Report; The Role of AI in Crisis Report; AI in Mental Health Report; Singapore's Ministry of Health and Transportation; BOSCH; Aetna; Travelers; Consumer Health Network; University of California, San Francisco.Learning Outcomes: Data cleaning; Data processing; Publications; R programming; MongoDB Atlas; Academic research paper writing; Data cleaning, visualization and Exploration; Drawing data-driven insights; Large-scale Data analytics; Power BI; A/B testing; Working with medical and clinical data and clients.	
Honor's Thesis, University of British Columbia	<i>September 2020 - September 2022</i>
<ul style="list-style-type: none">Studied individual differences that contribute to COVID-19 vaccine hesitancy and conspiracy beliefs. Handled literature reviews, compiled measures, and developed questionnaires using Qualtrics. Created consent and debriefing forms. Considered appropriate statistical tests for analysis, and led data analysis. Presented the results in two conferences, and completed an honors thesis manuscript.	

- **Learning Outcomes:** Literature review, Scoping review, Research design, Research ethics application, Qualtrics, Scientific writing, Data analyses, Quantitative method, Statistical testing, SPSS, R, Covidence, Working independently, Holistic research skills.

The Truth and Trust Lab, UBC

January 2020 - April 2022

- **Directed Studies Student (PSYO 481A):** Designed study to facilitate lie and truth conditions during a dyadic conversation to evaluate deception detection in real-life conversations.
- Moderated interview-styled conversations between participants on Zoom.
- **Learning Outcomes:** Research design, Survey creation (Qualtrics), Ethics application (IRB), Lab presentation, Working in a lab, Deception research, Literature review, Teamwork.

PEER-REVIEWED PUBLICATIONS

- Dinesh DN, Rao MN, Sinha C. Language adaptations of mental health interventions: User interaction comparisons with an AI-enabled conversational agent (Wysa) in English and Spanish. DIGITAL HEALTH. 2024;10. doi:10.1177/20552076241255616
- Sinha, C., Dinesh, D., Heaukulani, C., & Phang, Y. S. (2024). Examining a brief web and longitudinal app-based intervention [Wysa] for mental health support in Singapore during the COVID-19 pandemic: mixed-methods retrospective observational study. Frontiers in Digital Health, 6, 1443598. doi: 10.3389/fdgh.2024.1443598

CONFERENCES

Interdisciplinary Student Health Conference (ISHC), UBC.

March 2022

Delivered a presentation investigating the relationship between COVID-19 beliefs, vaccine beliefs, scientific literacy, belief in science, media usage, and belief in COVID conspiracy theories.

Psychology Undergraduate Research Conference (PURC), UBC.

March 2022

Presented findings on the intricate interplay between COVID-19 beliefs, vaccine beliefs, political ideology, scientific outlook, social media usage, and conspiracy mentality. Received the "Best Honours Presentation" award.

AWARDS & SCHOLARSHIPS

International Major Entrance Scholarship	2018-2022
Outstanding International Student Award	2018W
International Student Faculty Award	2019W
Deputy Vice-Chancellor Scholarship for International Students	2019W, 2020W, 2021W
The Faculty of Science International Student Award	2020W
International Undergraduate Research Award*	2021S

*Could not accept due to COVID-19 travel restrictions