Bio

BIO
I am a PhD student in Bioengineering specializing in the intersection of biodesign and machine learning for understanding, treating, and tracking neuropsychiatric conditions.

As a highly interdisciplinary translational researcher, I have several academic interests and my thesis work therefore spans the engineering, design, scientific, algorithmic, and clinical questions associated with developing new technologies to transform healthcare and diagnostics.

Before coming to Stanford, I completed an undergraduate degree in Computer Science at Rice University in Houston, Texas.

EDUCATION AND CERTIFICATIONS
- Master of Science, Stanford University, CS-MS (2018)
- BA, Rice University, Computer Science (2015)

STANFORD ADVISORS
- Dennis Wall, Doctoral Dissertation Advisor (AC)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS
I am currently a graduate student in Bioengineering specializing in biomedical data science, utilizing techniques from and innovating in crowdsourcing healthcare, applied machine learning, computational psychiatry, translational bioinformatics, human-computer interaction, and mobile/wearable systems.

I have several academic interests and my thesis work therefore spans the engineering, design, scientific, algorithmic, and clinical questions associated with developing new technologies to transform healthcare and diagnostics.

Publications

PUBLICATIONS
- Feature Selection and Dimension Reduction of Social Autism Data. Pacific Symposium on Biocomputing, Pacific Symposium on Biocomputing
  2020; 25: 707–18
- SUPERPOWER GLASS MOBILE COMPUTING AND COMMUNICATIONS REVIEW
  2019; 23 (2): 35–38

- Validity of Online Screening for Autism: Crowdsourcing Study Comparing Paid and Unpaid Diagnostic Tasks. Journal of medical Internet research
  2019; 21 (5): e13668

- Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder A Randomized Clinical Trial JAMA PEDIATRICS
  2019; 173 (5): 446–54

  2019; 21 (4)

- Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial. JAMA pediatrics
  2019

- Interactive programming paradigm for real-time experimentation with remote living matter. Proceedings of the National Academy of Sciences of the United States of America
  Washington, P., Samuel-Gama, K. G., Goyal, S., Ramaswami, A., Riedel-Kruse, I. H.
  2019

- Identification and Quantification of Gaps in Access to Autism Resources in the United States: An Infodemiological Study. Journal of medical Internet research
  2019; 21 (7): e13094

- Scientific Discovery Games for Biomedical Research ANNUAL REVIEW OF BIOMEDICAL DATA SCIENCE, VOL 2, 2019
  Das, R., Keep, B., Washington, P., Riedel-Kruse, I. H., Altman, R. B., Levitt, M.
  2019; 2: 253–79

- Labeling images with facial emotion and the potential for pediatric healthcare. Artificial intelligence in medicine
  2019; 98: 77–86

- Outgroup Machine Learning Approach Identifies Single Nucleotide Variants in Noncoding DNA Associated with Autism Spectrum Disorder
  WORLD SCIENTIFIC PUBL CO PTE LTD.2019: 260–71

  2019; 24: 260–71

  2019; 21 (4): e13822

- Addendum to the Acknowledgements: Validity of Online Screening for Autism: Crowdsourcing Study Comparing Paid and Unpaid Diagnostic Tasks. Journal of medical Internet research
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