RONIK BHASKAR

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EDUCATION

University of Chicago, **Chicago, IL**
PhD in Computer Science — *Began 2024*
Bachelor of Science in Computer Science and Mathematics, GPA: 3.96 — *June 2024*

HONORS & AWARDS

Inductee, Phi Beta Kappa — *2024*
Enrico Fermi Scholar, University of Chicago — *2023*
Metcalf Fellowship, University of Chicago — *2021*
Presidential Scholar Semifinalist, U.S. Department of Education — *2020*

PUBLICATIONS

A. Ha*, J. Passananti*, **R. Bhaskar**, S. Shan, R. Southen, H. Zheng, BY. Zhao (2024). Organic or Diffused: Can We Distinguish Human Art from AI-generated Images? *ACM CCS*, Salt Lake City UT.

Z. Yang, Z. Sarwar, I. Hwang, **R. Bhaskar**, BY. Zhao, H. Zheng (2024). Can Virtual Reality Protect Users from Keystroke Inference Attacks? *USENIX Security*, Philadelphia PA.

RESEARCH EXPERIENCE

University of Chicago
Undergraduate Researcher, SAND Lab — *June 2022 – Present*

- Evaluate AI image detectors with a human-curated, adversarially-robust benchmark
- Build and manage a webservice around GLAZE, a tool protecting art styles from AI, serving over 3000 artists with continuous updates and a web-of-trust network
- Analyze handtracking data for modern VR systems, quantifying the near-Gaussian noise and lack of precision during realistic typing events
- Train and evaluate DNNs to test the transferability of keystroke inference attacks in VR
- Engineer methods for reducing detectability in attacks on Cloze and knowledge retrieval tasks for bidirectional text transformers

MIT / Transformative Energy and Materials Capital
Research Intern, Physics Research Department — *January 2022 – May 2022*

- Design simulations of novel models of subatomic particles
- Facilitate communication between our researchers and ML experts at a distributed computing company

Thirty Million Words
Research Intern, Wearable Technology Division — *June 2021 – December 2021*

- Evaluate reliability of new and existing web services, discovering 20+ bugs and a cross-site scripting attack
- Design algorithms to calculate conversation metrics using prior research in cognitive development

TEACHING AND OUTREACH

President, UChicagOrigami — *January 2022 – June 2024*

- Design and run weekly workshops for arts students and neurodiverse students

TA, Masters C Bootcamp, University of Chicago — *January 2023*

- Design curriculum and answer questions for 30 CS masters students

TA, Foundations of Computer Networks, University of Chicago — *October 2022 – December 2022*

- Hold office hours 4 times a week with 15+ students per session, review work done by graders

Tutor, ACT Prep, 72 Tutoring — *June 2020 – December 2020*

- Work with 8+ students 1-on-1 twice a week, modifying curriculum and tracking progress