

Guilin Hu

Cornell University, 107 Hoy Rd, Ithaca, NY 14853 | <https://guilinh.hu.github.io/> | gh386@cornell.edu

EDUCATION

Cornell University, College of Arts and Sciences

Ithaca, New York

B.A. in Computer Science

Aug 2020 - present

RESEARCH EXPERIENCE

Undergraduate Student Researcher

Ithaca, New York

Cornell University Smart Computer Interfaces for Future Interactions (SciFi) Lab

Feb 2022 - Present

Advisors: Prof. Cheng Zhang and Prof. François Guimbretière

- Work on building systems aimed for tracking human behavior and providing new interaction interfaces by combining machine learning with novel sensing approaches
- Conduct user studies under IRB protocol to rigorously evaluate the performance of those systems under diverse population and understand user experiences

PUBLICATIONS

• Hyunchul Lim, **Guilin Hu**, Richard Jin, Hao Chen, Ryan Mao, Ruidong Zhang, Cheng Zhang. C-Auth: Exploring the Feasibility of Using Egocentric View of Face Contour for User Authentication on Glasses. **Proceedings of the 27th Annual International Symposium on Wearable Computers (ISWC' 23)**, To Appear

• Saif Mahmud, Ke Li, **Guilin Hu**, Hao Chen, Richard Jin, Ruidong Zhang, Francois Guimbretiere, Cheng Zhang. PoseSonic: 3D Upper Body Pose Estimation Through Egocentric Acoustic Sensing on Smartglasses. **Proceedings of the Association for Computing Machinery on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/UbiComp' 23**, <https://doi.org/10.1145/3610895>

• Tianhong Yu, **Guilin Hu**, Ruidong Zhang, Hyunchul Lim, Saif Mahmud, Chi-Jung Lee, Ke Li, Devansh Agarwal, Shuyang Nie, Jinseok Oh, Francois Guimbretiere, Cheng Zhang. Ring-a-Pose: A Ring for Continuous Hand Pose Tracking. *Under Review*

AWARDS & HONORS

Cornell University Summer Experience Grant

May 2022 & Jun 2023

Award conferred upon top Cornell University students to offer financial support for summer research

Cornell University Dean's List

Fall 2020, Fall 2021, Spring 2022, Fall 2022, Spring 2023

Honor presented each semester for students achieving exemplary academic records

British Physics Olympiad Top Gold Award

Nov 2018

*Award conferred to contestants ranking **Global Top 100***

American Physics Bowl Competition (2018) Global Top 100

May 2018

*Award conferred to contestants ranking **Global Top 100***

LEADERSHIP

VP of Internal Affairs, ASCEND Cornell Chapter

Dec 2021 - Dec 2022

- Organizes and designs new member training and stock pitch events for 12+ members per semester
- Responsible for recruitment and fund-raising communications

SKILLS & LANGUAGES

- **Skills:** Python • Java • OCaml • SQL • Keras • Pytorch • TensorFlow • Numpy • Pandas
- **Languages:** English, French, Chinese (Native)