

Yujie TAO

<https://yujietao.me>
@ yujiet@uchicago.edu

EDUCATION

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|-----------|---|
| 2020- | University of Chicago
M.S. Computer Science (pre-doctoral program) |
| 2016-2020 | University of North Carolina at Chapel Hill
B.A. Media and Journalism, Computer Science |

PUBLICATION

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- > Xinran Lu, Praneeth Chakravarthula, **Yujie Tao**, Steven Chen, Henry Fuchs : *Improved vergence and accommodation via Purkinje Image tracking with multiple cameras for AR eyeglasses*, ISMAR 2020.

RESEARCH EXPERIENCE

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| June 2020
now | Research Assistant, UNIVERSITY OF CHICAGO, Chicago, IL <ul style="list-style-type: none">> Human-Computer Integration Lab. Advised by Prof. <u>Pedro Lopes</u>.> Project : Exoskeleton-EMS system to control user's hand for force feedback. I created an automated sign languages demo and three VR applications to showcase the strength of our device.> 2020 Summer funded by Center for Data and Computing Summer Lab.> Tools used : Tensorflow JS, Unity, Flask, BLE, OSC. |
| May 2020
June 2020 | Research Intern, MIT MEDIA LAB, Boston, MA <ul style="list-style-type: none">> Fluid Interfaces Group. Advised by Dr. <u>Nataliya Kosmyna</u>.> Project : <u>AttentivU—EEG wearables for cognitive enhancement</u>. I researched and implemented machine learning algorithm to process EEG signals that detects change of mental states. |
| Aug. 2018
May 2020 | Undergraduate Researcher, UNC-CHAPEL HILL, Chapel Hill, NC <ul style="list-style-type: none">> Graphics and Virtual Reality Group. Advised by Prof. <u>Henry Fuchs</u>.> Project : <u>Advancing eyetracking accuracy for AR glasses</u>. I designed and fabricated the eyeglasses prototype, collected and analyzed the data of higher-order Purkinje images.> Past project : <u>Glaucoma detection in VR</u>. Implemented visual field test in VR environment.> Tools used : OpenCV, circuit design, PyTorch, Unity, Blender. |

PROFESSIONAL EXPERIENCE

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| May 2019
Aug. 2019 | Program Manager Intern, MICROSOFT, Redmond, WA <ul style="list-style-type: none">> M365 Security; Proposed and led vision of insider threat detection to protect millions of users' data.> Conducted qualitative research and data analysis of the security logs to define features.> Drove end-to-end implementations of three detection logic with high-accuracy alerting mechanism.> Established triage collaboration with four teams across three organizations globally. |
| June 2018
Aug. 2018 | Program Manager Intern, MICROSOFT, Beijing, China <ul style="list-style-type: none">> Bing News; managed a blockchain content ecosystem product.> Conducted market research, proposed and prototyped for the product integration with Bing search.> Collaborated with developers, designers, and legal to realize V1 features.> Developed an internal software in C# that helps pipeline data labeling process. |

May 2017 | **Account Executive Intern, McCANN, Shanghai, China**
July 2017

- > McCANN Health. Clients : Johnson&Johnson, Baxter, Lilly, Cedars-Sinai, Gilead Sciences.
- > Acted as liaison with internal teams and clients, driving strategy and creative development.
- > Established working schedules for campaigns with production teams.

AWARDS

2020 **\$27,500 Merit Scholarship**, University of Chicago
2019 **Scholarship Recipient**, Grace Hopper Conference
2019 **Scholarship Recipient**, Blackhat Conference
2019 **Don and Barbara Curtis Excellence Fund**, UNC-Chapel Hill
2016-2019 **Dean's List**, UNC-Chapel Hill

INITIATIVE

PEARL HACKS

AUG. 2018 - MAY. 2020

<https://pearlhacks.com>

Pearl Hacks supports 300+ underrepresented students to explore technology each year. As the marketing VP of Pearl Hacks 2020, I proposed marketing strategy and directed UNC Marketing, External Marketing, Design, and Technology team. I also drove executive board restructuring and branding. In 2019, I was the volunteering director and webmaster.

UNC PRODUCT MANAGEMENT CLUB

APR. 2019 - NOV. 2019

<https://uncpmclub.com>

I launched Product Management Club with the vision of building a product community at UNC. We host weekly events, including hands-on workshops and invited talks, to introduce product management to a broader audience. Through partnering with local startups, our members research, propose, and ship product features.

DUKE-UNC CHINA LEADERSHIP SUMMIT

NOV. 2017 - MAR. 2018

<http://www.dukeunccls.com>

The Duke-UNC China Leadership Summit is an annual conference to foster conversation of Sino-US relations. As a marketing committee member, I promoted the conference on both CLS home campuses and at out-of-state universities. I also created graphics for event materials. We attracted 70+ UNC applicants and 120+ out-of-state applicants for CLS 2018.

SKILLS

- > **Programming** : Python, Java, C, R, SQL, HTML/CSS, JavaScript, OpenCV, Docker, React, Git, PyTorch
- > **Design** : Adobe Experience Design, Adobe Illustrator, Unity 3D, Autodesk Fusion 360