

Tya (Tee) Chuanromanee

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EMPLOYMENT HISTORY

UX Research Intern | 06/2021 – 08/2021

Facebook | Seattle, WA

- Investigate creators' pain points in using Live Breaks feature
- Conduct interviews with users and non-users of Live Breaks
- Present findings to stakeholders

Graduate Research Assistant | 08/2018 - Present

University of Notre Dame | Notre Dame, IN

- Conduct and analyze semi-structured interviews using open and axial coding
- Create and evaluate paper and digital prototypes
- Design and implement Mechanical Turk experiments to evaluate cognitive biases in visualizations
- Design and conduct user studies and participatory design workshops
- Oversee students and lead professional development meetings
- Built a mobile breathing visualizations tool using D3.js and performed usability testing

Graduate Teaching Assistant | 08/2018 – 05/2019

University of Notre Dame | Notre Dame, IN

- Grade Programming Paradigms daily assignments, in-class exercises, and projects
- Hold regular office hours for students
- Act as a liason between professor and students

Undergraduate Research Assistant | 06/2017 – 08/2018

Kettering University | Flint, MI

- Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis in Matlab
- Wrote and utilized data analysis scripts including principal component analysis
- Wrote and updated technical documentation for users and developers
- Created and tested a graphical user interface

Peer Tutor | 10/2016 – 06/2018

Kettering University | Flint, MI

- Supported students' academic progress through individual and group tutoring
- Focused on computer science subjects as well as calculus, chemistry, physics, and computer engineering
- Obtained Level 2 Tutor certification from College Reading and Learning Association

Software Engineer Co-op | 01/2016 – 03/2017

Robert Bosch, LLC | Plymouth, MI

- Wrote and supported customer and internal scripts in Python, Perl, and VBA
- Tested embedded software modules in ASCET Database using code coverage analysis
- Implemented CERT analysis system for project-wide security assessment

Test and Validation Co-op | 07/2015 – 09/2015

Robert Bosch, LLC | Novi, MI

- Identified and documented bugs in automotive infotainment systems
- Validated bug fixes
- Tested navigation systems for customer (General Motors) both in car and on bench
- Went on testing trips with customer to locate and verify bugs
- Worked with customers to ensure that bugs were resolved quickly
- Wrote and improved technical documentation

EDUCATION

PhD: Computer Science | 08/2017 – 06/2023

University of Notre Dame | Notre Dame, IN

Overall GPA: 3.91

Research Area: Human-Computer Interaction

Advisor: Ronald Metoyer

BSCS: Computer Science, Economics Minor | 10/2015 – 06/2018

Kettering University | Flint, MI

Overall GPA: 3.95, Dean's List

Summa Cum Laude

Upsilon Pi Epsilon Computer Science Honor Society, Member

Thesis: *Diagnostic Assistance Software for Mental Healthcare Providers*, Pass With Distinction

Mechanical Engineering Major | 09/2014 – 05/2015

Milwaukee School of Engineering | Milwaukee, WI

Overall GPA: 3.91

Dean's List with High Honors

SKILLS

Programming Languages

Python, JavaScript, C, Java, MATLAB, SQL, Haskell

User Research Methods and Tools

Interviews and Observations, Usability Studies, Participatory Design, Mechanical Turk, Maze

Interface Design

D3.js, Figma, Zeplin, Adobe XD, Adobe Photoshop

Data Analysis

Open and Axial Coding, Affinity Diagramming, SPSS, Atlas.TI, Saturate

Website Development

HTML, CSS, PHP, JavaScript, Vue.js, MySQL, Bootstrap, Django, Drupal, Wordpress

Teaching and Tutoring

Computer Science: Computing and Algorithms I-III, Programming Paradigms, Operating Systems, Web Software, Functional Languages
Computer Engineering: Digital Systems, Microcomputers I-II
Mathematics: Calculus I-III, Differential Equations

CONFERENCE AND JOURNAL PAPERS

Chuanromanee, T. Designing for Transition Temporalities. Submitted.

Chuanromanee, T. & Metoyer, R. 2021. A Crowdsourced Exploration of the Effects of Visualization on Confirmation Bias in Decision-Making in Non-Experts. Submitted.

Chuanromanee, T. & Metoyer, R. 2021. Transgender People's Technology Needs to Support Health and Transition. Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems. pp. 1-13.

Chuanromanee, T. & Metoyer, R. 2020. Evaluation and Comparison of Four Mobile Breathing Training Visualizations. 2020 International Conference on Healthcare Informatics. pp. 1-12.

Metoyer, R., **Chuanromanee, T.**, Girgis, G. M., Zhi, Q., & Kinyon, E. (2020). Supporting Storytelling with Evidence in Holistic Review Processes: A Participatory Design Approach. Proceedings of the ACM on Human-Computer Interaction, 4(1).

Chuanromanee, T., Cohen, J., & Ryan, G. 2019. Morphological Analysis of Size and Shape (MASS): An integrative software program for morphometric analyses of leaves. Applications in Plant Sciences, e11288.

EXTENDED ABSTRACTS

DeVito, M.A., Lustig, C., Simpson, E., Allison, K.R., **Chuanromanee, T.**, Spiel, K., Ko, A.J., Rode, J., Dym, B., Muller, M., Scheuerman, M., & Walker, A. 2021. SIG: Queer in HCI: Strengthening the Community of LGBTQIA+ Researchers and Research. In Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems.

ORAL PRESENTATIONS

Transgender People's Technology Needs to Support Health and Transition. Oral presentation at ACM CHI Conference on Human Factors in Computing Systems, Virtual, May 10 & 11, 2021.

Evaluation and Comparison of Four Mobile Breathing Training Visualizations. Oral presentation at IEEE International Conference on Healthcare Informatics (ICHI), Virtual, December 2, 2020.

Supporting Storytelling with Evidence in Holistic Review Processes: A Participatory Design Approach. Oral presentation at Computer Supported Cooperative Work and Social Computing (CSCW), Virtual, October 17, 2020.

MASS: a tool for Morphological Analysis of Size and Shape of leaves. Oral presentation at the Michigan Academy of Science, Arts, and Letters, Central Michigan University, Mount Pleasant, MI, March 9, 2018.

Quantitative Analysis of Leaf Shape. Oral presentation at the Kettering Department of Physics Seminar Series, Kettering University, Flint, MI, August 18, 2017.

POSTER PRESENTATIONS

Supporting Storytelling with Evidence in Holistic Review Processes: A Participatory Design Approach. Poster presentation at the Prospective PhD Student Visit Poster Session, University of Notre Dame, Notre Dame, IN, March 5, 2021.

Evaluation and Comparison of Usability of Four Mobile Breathing Training Visualizations. Poster presentation at the CRA URMD Grad Cohort Workshop, Computing Research Association, Waikoloa, HI, March 22, 2019.

MASS: a tool for Morphological Analysis of Size and Shape of leaves. Poster presentation at Kettering University Homecoming Poster Session, Kettering University, Flint, MI, May 17, 2018.

Quantitative Analysis of Leaf Shape. Poster presentation at the Research Experience for Undergraduates Poster Session, Kettering University, Kettering University, Flint, MI, August 17, 2017.

INVITED TALKS

Being the Queer Kid: Navigating Disclosure in STEM. Oral presentation at Kettering University Diversity Week, Virtual, November 16, 2020.

HONORS AND AWARDS

Travel Scholarship | Tapia Conference | 2020

Leadership Advancing Socially Engaged Research | University of Notre Dame | 2020 – 2021

Tapia 2019 Travel Grant | AccessComputing | 2019

CRA URMD Travel Grant | Computing Research Association | 2019, 2020

GEM Associate Fellow | The National GEM Consortium | 2019 – 2020

James and Eileen Simon Graduate Fellowship | University of Notre Dame | 2018 – 2019

Outstanding Thesis Award | Kettering University | 2018

President's Medal | Kettering University | 2018

Bio REU Travel Grant | Rocky Mountain Biological Laboratory | 2018

Donald Miles Memorial Scholarship | Kettering University | 2017 – 2018

Kettering Merit Scholarship | Kettering University | 2015 – 2018

Presidential Scholarship (Full Tuition) | Milwaukee School of Engineering | 2014 – 2015

Siemens Merit Scholarship | Siemens | 2014 – 2018

Discus Awards Honorable Mention | Discus Awards | 2013

SERVICE

External Paper Reviewer | ACM CSCW | 2021

Graduate Student Board Member | University of Notre Dame | 2021-2021

External Poster Reviewer | ACM CSCW | 2020

Outreach and Solidarity Chair | Queer in HCI Special Interest Group | 2020 – 2021

Blog Editor | Irish 4 Reproductive Health | 2020 – present

External Paper Reviewer | IEEE ISEC TPC | 2019, 2021

Receptionist | The LGBTQ Center | 2018 – present

Event Assistant | The LGBTQ Center | 2018 – present

Treasurer | Amazing Grace Counseling Outreach | 2012 – 2019

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

URMD Grad Cohort Participant | Computing Research Association | 2019, 2020

Striving for Excellence in College and University Teaching | University of Notre Dame Kaneb Center for Teaching and Learning | 2018

Responsible Conduct of Research | CITI Program | 2017

Level 2 Certified Tutor | College Reading & Learning Association | 2017

PROFESSIONAL MEMBERSHIPS

Member | Association for Computing Machinery

Member | ACM SIGCHI

Member | Society for Applied and Industrial Mathematics

Member | Upsilon Pi Epsilon

REFERENCES AVAILABLE ON REQUEST