**Tya Chuanromanee**5625 Osage Lake Dr Apt #2B, Mishawaka, IN 46545  
[tchuanro@nd.edu](mailto:tchuanro@nd.edu) | (734) 417-8613

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| Education |

* **University of Notre Dame,**Notre Dame, IN Expected May 2023
* *PhD: Computer Science*
* GPA: 3.909
* Human-Computer Interaction
* Advisor: Ronald Metoyer
* **Kettering University,** Flint, MI June 2018
* *BSCS: Computer Science with Economics minor*
* GPA: 3.95, Summa Cum Laude, Dean’s List
* Upsilon Pi Epsilon Computer Science Honor Society, Member
* Thesis: *Diagnostic Assistance Software for Mental Healthcare Providers,* Pass With Distinction
* **Milwaukee School of Engineering,** Milwaukee, WI September 2014-May 2015
* Mechanical Engineering major
* GPA: 3.91, Dean’s List with High Honors

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| Experience |

**Founder Transverse,**Mishawaka, IN April 2019-present

* Design, develop, and test mobile application for mental health and dysphoria management for transgender individuals
* Lead meetings and coordinate organizational operations
* Apply for grants and funding

**Graduate Research Assistant University of Notre Dame,**Notre Dame, IN August 2018-present

* Conduct and analyze semi-structured interviews to inform design of a mobile application
* Create and evaluate paper and digital prototypes
* Design and implement Mechanical Turk experiments to evaluate cognitive biases
* ﻿Design and conduct user studies and participatory design workshops
* Built a mobile breathing visualizations app and performed usability testing to evaluate its effectiveness

**Undergraduate Research Assistant Kettering University,**Flint, MI June 2017-August 2018

* Wrote and implemented image analysis techniques including Elliptical Fourier Descriptors and landmark analysis
* Write data analysis scripts including principal component analysis using Matlab
* Created and tested graphical user interface

**Peer Tutor Kettering University,**Flint, MI October 2016-June 2018

* Supported students' academic progress through tutoring in both individual and group settings
* Obtained Level 2 Tutor certification from College Reading and Learning Association

**Software Engineer Co-op Robert Bosch, LLC,** Plymouth, MIJanuary 2016-March 2017

* 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 Robert Bosch, LLC,** Novi, MIJuly 2015-September 2015

* Identified and documented bugs in automotive infotainment systems
* Validated bug fixes
* Worked with customer on multiple testing trips to locate and verify bugs
* Wrote and improved technical documentation

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| Related Experience |

**Blog Editor** **Irish 4 Reproductive Health,** South Bend, IN December 2018-present

* Maintain organization website, keep blog updated, and recruit content contributors
* Attend regular board meetings and assist in event organization

**Receptionist** **The LGBTQ Center,** South Bend, IN December 2018-present

* Greet walk-in visitors, answer phone calls, and managed community library
* Perform data entry for diversity training sessions

**Treasurer** **Amazing Grace Counseling Outreach,** Ann Arbor, MI May 2012-September 2019

* Keep records of finances for organization and prepare quarterly and annual financial reports for organization
* Manage organization website

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| Skills |

* **Programming Languages:** Python, C, Java, MATLAB, SQL, Haskell, Perl, VBA
* **Machine Learning:** RNN, CNN, Keras, Theano; Sampling and training data; Network architecture
* **Website Development:** HTML, CSS, PHP, JavaScript, MySQL, Bootstrap, Django, Drupal, Wordpress
* **Software:** Atlas.TI, Figma, Zeplin, Android Studio, Windows and Linux operating systems, Git, Microsoft Office Suite, MATLAB App Designer, SolidWorks, Adobe Photoshop, Intuit QuickBooks
* **Data Collection and Analysis**: Open Coding, Affinity Diagramming, Participatory Design
* **Teaching and Tutoring:** Computer Science and Engineering: Computing and Algorithms I-III, Programming Paradigms, Operating Systems, Web Software, Functional Languages, Digital Systems, Microcomputers I-II; Mathematics: Calculus I-III, Differential Equations

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| Selected Publications |

* **Chuanromanee, T.** & Metoyer, R. 2021. Understanding Transgender People’s Technology Needs to Support Health and Transition. In Preparation.
* 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).

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| Honors and Awards |

* Leadership Advancing Socially Engaged Research Fellow (2020-2021)
* GEM Associate Fellowship (2019-2020)
* James and Eileen Simon Graduate Fellowship (2018-2019)
* Outstanding Thesis Award (2018)
* President’s Medal (2018)
* Kettering Merit Scholarship Award (2015-2018); Donald Miles Memorial Scholarship (2017-2018)
* Milwaukee School of Engineering Full Tuition Presidential Scholarship Award (2014-2015)
* Siemens Merit Scholarship Award (2014-2018)