**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 |

**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
* Set up and managed version control and project timeline using Git and GitHub

**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
* Went on multiple testing trips with customer (General Motors) to locate and verify bugs
* Wrote and improved technical documentation

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| Related Experience |

**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

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

* Greet walk-in visitors and answer phone calls
* Check books in and out of the community library for guests
* Perform data entry for diversity training sessions

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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 design and 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.,** Zhi, Q., Metoyer, R. 2021. Visualization May Amplify Confirmation Bias. In Preparation.
* **Chuanromanee, T.** & Metoyer, R. 2021. Understanding Transgender People’s Technology Needs to Support Health and Transition. In Preparation.
* **Chuanromanee, T.** & Metoyer, R. (2020). Evaluation and Comparison of Four Mobile Breathing Training Visualizations. 2020 International Conference on Healthcare Informatics. Forthcoming.

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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)

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| Training and Certifications |

* URMD Grad Cohort - Computing Research Association (2019, 2020)
* Striving for Excellence in College and University Teaching - University of Notre Dame Kaneb Center for Teaching and Learning (2018)
* Level 2 Certified Tutor - College Reading & Learning Association (2017)