**Tya Chuanromanee | PhD Student in HCI**

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**01. EDUCATION**

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| Expected 06/2023 |  | **University of Notre Dame,**Notre Dame, IN  *PhD: Computer Science*  GPA: 3.91  Human-Computer Interaction  Advisor: Ronald Metoyer |
| 06/2018 |  | **Kettering University,** Flint, MI  *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 |
| 09/2014 – 05/2015 |  | **Milwaukee School of Engineering,** Milwaukee, WI  Mechanical Engineering major  GPA: 3.91, Dean’s List with High Honors |
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**02. SELECTED EXPERIENCE**

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| 04/2019 – pres. |  | **Founder | Transverse,**Mishawaka, IN   * Design and develop Android application for mental health management for transgender individuals * Create and evaluate paper and digital prototypes using Figma and Maze * Lead meetings and coordinate organizational operations * Apply for grants and funding |
| 08/2018 – pres. |  | **Graduate Research Assistant | University of Notre Dame,**Notre Dame, IN   * Conduct and analyze semi-structured interviews of user population using open, axial, and selective coding * Designed and implemented Mechanical Turk experiments to evaluate cognitive biases * Design and conduct user studies and participatory design workshops * Created visualizations using D3.js and performed usability testing to evaluate effectiveness |
| 06/2017 – 06/2018 |  | **Undergraduate Research Assistant | Kettering University,**Flint, MI   * 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 * Presented work at REU Symposium in Flint, MI, and at MASAL conference in Mount Pleasant, MI * Work published in Applications in Plant Sciences |
| 01/2016 – 03/2017 |  | **Software Engineer Co-op | 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 |

**03. SKILLS**

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| **Programming and Web Development** |  | Python, HTML, CSS, PHP, JavaScript, MySQL, Bootstrap, Django, Drupal, Wordpress, C, Java, MATLAB, SQL, Haskell, Perl, VBA |
| **Research Methods** |  | Open coding, Affinity diagramming, Participatory design, Semi-structured interviews, Usability testing |
| **Design and Prototyping** |  | Atlas.TI, Saturate, Figma, Git, Adobe XD. Adobe Photoshop |

**04. SELECTED HONORS AND AWARDS**

Leadership Advancing Socially Engaged Research Program (2020-2021)  
GEM Associate Fellowship (2019 – 2020)  
James and Eileen Simon Graduate Fellowship (2018 – 2019)  
Outstanding Thesis Award (2018)  
President’s Medal (2018)  
Donald Miles Memorial Scholarship (2017 – 2018)

**05. SELECTED PUBLICATIONS**

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