Nattapat Boonprakong

I am a final-year PhD candidate at the University of Melbourne. My research seeks to develop methods to quantify, understand, and mitigate **Cognitive Biases in Human-Computer Interaction**, specifically in the context of online misinformation and social media, with the goal to support critical thinking in people.

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Website: https://nattapatb.github.io
Google Scholar: https://scholar.google.com/citations?user=pIGYZbcAAAAJ&hl=en

EXPERTISE

Human Factors, Human-Computer Interaction, Physiological Computing, Human-AI Interaction

EDUCATION

2021 – 2025 (expected)	**Doctor of Engineering and Information Technology** The University of Melbourne, Australia *Thesis supervisors: Tilman Dingler, Benjamin Tag, Jorge Goncalves*
2019 – 2021	**Master of Information Science and Technology** Osaka University, Japan
2014 – 2018	**Bachelor of Computer Engineering** (1st class honor) Chulalongkorn University, Thailand

PUBLICATIONS

1 **Nattapat Boonprakong**, Benjamin Tag, Jorge Goncalves, and Tilman Dingler. *How Do HCI Researchers Study Cognitive Biases? A Scoping Review*. In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI 2025).

2 **Nattapat Boonprakong**, Saumya Pareek, Benjamin Tag, Jorge Goncalves, and Tilman Dingler. *Assessing Susceptibility to Confirmation Bias in News Feed Reading*. In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI 2025).

3 **Nattapat Boonprakong**, Xiuge Chen, Catherine Davey, Benjamin Tag, and Tilman Dingler. 2023. *Bias-Aware Systems*: *Exploring Indicators for the Occurrences of Cognitive Biases when Facing Different Opinions*. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI 2023). **(Honorable Mention Best Paper Award 🏆 top 5%)**.

4 **Nattapat Boonprakong**, Benjamin Tag, and Tilman Dingler. 2023. *Designing Technologies to Support Critical Thinking in an Age of Misinformation*. IEEE Pervasive Computing.

5 **Nattapat Boonprakong**, Tsukasa Kimura, Ken-ichi Fukui, Kazuya Okada, Masato Ito, Hiroshi Maruyama, and Masayuki Numao. 2020. *Towards Multimodal Office Task Performance Estimation*. In Proceedings of the 2020 IEEE International Conference on Systems, Man, and Cybernetics (IEEE-SMC 2020).

6 **Nattapat Boonprakong**, Patcharida Pudpadee, Thanarat H Chalidabhongse, and Proadpran Punyabukkana. 2017. *Reading Mathematical Expression in Thai*. In Proceedings of the 11th International Convention on Rehabilitation Engineering and Assistive Technology (i-CREATe 2017).

WORKSHOP INITIATIVES

UbiComp/ISWC'24	**Nattapat Boonprakong**, Kaixin Ji, Ziyi Ye, Benjamin Tag, Damiano Spina, Tuukka Ruotsalo, and Flora D Salim. 2024. *Advancing Physiological Methods for Human-Information Interaction*. In Companion of the 2024 on ACM International Joint Conference on Pervasive and Ubiquitous Computing. https://hii-biosignal.github.io/ubi24/
CSCW'23	**Nattapat Boonprakong**, Gaole He, Ujwal Gadiraju, Niels van Berkel, Danding Wang, Si Chen, Jiqun Liu, Benjamin Tag, Jorge Goncalves, and Tilman Dingler. 2023. *Workshop on Understanding and Mitigating Cognitive Biases in Human-AI Collaboration*. In Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing. http://critical-media.org/cscw23/

SPECIAL RECOGNITION FOR OUTSTANDING REVIEWS

ISS 2024	ACM Interactive Surfaces and Spaces Conference
CHI 2024	ACM CHI Conference on Human Factors in Computing Systems

VOLUNTEER EXPERIENCE

Peer-Reviewing
Associate Chair: CHI Late-breaking Work (2024)
External Reviewer: CHI (2025, 2024, 2023), ISS (2024), MUM (2023), HAI (2023), ISWC (2023), MobileHCI (2024, 2023), SMC (2024)

Conferences and Symposia
Technical Program Chair: CIS Doctoral Colloquium 2024
Student Volunteer: CHI 2023, VIS 2023

Student Clubs
Committee Member: CIS Graduate Researcher Society (CIS-GReS) 2022 – 2024

AWARDS

September 2024	**Melbourne Plus – People Leadership** The University of Melbourne
October 2023	**Best 3-Minute Research Presentation** CIS Doctorial Colloquium, the University of Melbourne

SCHOLARSHIPS

2021 – 2025	**Melbourne Research Scholarship** (The University of Melbourne)
2018 – 2021	**Japanese Government Scholarship** (Monbukagakusho; MEXT)

TEACHING EXPERIENCE

University of Melbourne

Head Tutor	**COMP90041 Computer Programming and Software Development** S1-2 (2024), S2 (2023), S2 (2023) (Tool used: Java)
Tutor	**COMP90018 Mobile Computing Systems Programming** S2 (2024)

Chulalongkorn University

Teaching Assistant	**2110101 Computer Programming** (Tool used: Python) S2-S3 (2017)
Teaching Assistant	**2110313 Operating Systems and System Programs** (Tool used: C) S1 (2017)
Marker	**2110254 Digital Design Verification** (Tool used: Verilog) S2 (2016)

INDUSTRY EXPERIENCE

2019 – 2021	**Research Assistant (Physiological Data Analysis)** SANKEN, Osaka University, Japan
2019 September	**Software Engineering Intern** Crimson Technology, Japan
2018 – 2019	**Data Science Researcher** Home DOT Tech, Thailand
2017 May – July	**Research Intern (Mathematical Science)** Nara Institute of Science and Technology, Japan

TECHNICAL SKILLS

- Quantitative and statistical analysis
- Experimental design
- Physiological signal processing
- Programming languages: Python, Java, C/C++, MATLAB

ACADEMIC REFERENCES

- Tilman Dingler (t.dingler@tudelft.nl)
- Benjamin Tag (benjamin.tag@unsw.edu.au)
- Jorge Goncalves (jorge.goncalves@unimelb.edu.au)
- Proadpran Punyabukkana (proadpran.p@chula.ac.th)