# YIN HONG CHEAH
## *Curriculum Vitae*

Assistant Professor · Department of Curriculum and Instruction · University of Idaho
yhcheah@uidaho.edu

## EDUCATION

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|---|---|
| 2023 | Ph.D., Curriculum and Instruction |
| | Specialization: *Learning Technologies* |
| | University of Texas at Austin, Texas, U.S. |
| | Dissertation Title: *Investigating K-12 Teachers' Instructional Technology Use to Promote Equitable Learning: A Mixed-Methods Approach* |
| | Committee: Dr. Joan E. Hughes (Chair), Dr. Catherine Riegle-Crumb, Dr. María González-Howard, and Dr. Audrey Boklage |
| 2007 | M.Ed., Educational Psychology |
| | University Technology Malaysia, Malaysia |
| | Thesis Title: *The Relationship between Self-Regulated Learning and Academic Performance among the Students of University Technology Malaysia* |
| 2001 | B.Eng, Chemical Engineering |
| | University Technology Malaysia, Malaysia |

## PUBLICATIONS

### Peer-Reviewed Journal Articles

**Cheah, Y. H.**, Oliveri, A. R., & Hughes, J. E. (2023). Unpacking K-12 teachers' technology-supported, equitable practices: A mixed-methods systematic review. *Teaching and Teacher Education, 125*, 103984. https://doi.org/10.1016/j.tate.2022.103984

Hsu, H.-P., **Cheah, Y. H.**, Hughes, J. E. (2023). A case study of a secondary Biology teacher's pedagogical reasoning and action with augmented reality technology. *Education Sciences*, *13*(11), 1080. https://doi.org/10.3390/educsci13111080

Hughes, J. E., **Cheah, Y. H.**, Shi, Y., & Hsiao, K.-H. (2020). Pre-service and in-service teachers' pedagogical reasoning underlying their most-valued technology-supported instructional activities. *Journal of Computer Assisted Learning, 26*(4), 549-568. https://doi.org/10.1111/jcal.12425

**Cheah, Y. H.**, Chai, C. S., & Toh, Y. (2019). Traversing the context of professional learning communities: Development and implementation of technological pedagogical content knowledge (TPACK) of a primary science teacher. *Research in Science and Technological Education, 37*(2), 147-167. https://doi.org/10.1080/02635143.2018.1504765

Tan, A.-L., Lee, P. P. F., & **Cheah, Y. H.** (2017). Educating science teachers in the 21st century: Implications for pre-service teacher education. *Asia Pacific Journal of Education, 37*(4), 453-471. https://doi.org/10.1080/02188791.2017.1386092

## Academic Conference Proceedings

Cai, Y., **Cheah, Y. H.**, Meng, C., Rosenblum, J. A., & Shi, Y. (2021). Graduate instructors' technostress of engaging in emergency online teaching during the COVID-19 pandemic. In Simonson, M. R., & Seepersaud, D. J. (Eds.), *Proceedings of the Association for Educational Communications & Technology (AECT) Conference*, Volume 1, 29-41.

**Cheah, Y. H.**, Chai, C. S., Toh, Y. (2019). Teachers' TPACK evolvement in a technology-mediated elementary science innovation: A translation perspective. In Graziano, K. (Ed.), *Proceedings of Society for Information Technology and Teacher Education Conference,* 2417-2422.

Hughes, J. E., **Cheah, Y. H.**, Shi, Y., & Hsiao, K.-H. (2019). A comparison of pre-service and in-service teachers' most valued technology-supported activities for teaching and learning. In Simonson, M. R., & Seepersaud, D. J. (Eds.), *Proceedings of the Association for Educational Communications & Technology (AECT) Conference*, Volume 1, 129-138.

**Cheah, Y. H.**, Muhammad, F. H., Chai, C. S., & Toh, Y. (2016). The impact of a professional learning community on teacher learning and practice. In Song, Y., Wu, Y.-T., Chan, T.-W., Kong, S. C., Ma, H. H., Lai, A.-F., Chai, C. S., Wang, L., & Yu, H. (Eds.), *Teacher Forum Proceedings of the 20th Global Chinese Conference on Computers in Education 2016, 00*, 221-228.

Chai, C. S., Low, J., **Cheah, Y. H.**, Toh, Y., & Lee, J. (2016). Exploring Singapore primary three students' perception of science learning supported by mobile computing devices. In Song, Y., Wu, Y.-T., Chan, T.-W., Kong, S. C., Ma, H. H., Lai, A.-F., Chai, C. S., Wang, L., & Yu, H. (Eds.), *Teacher Forum Proceedings of the 20th Global Chinese Conference on Computers in Education 2016, 00*, 213-220.

## ACADEMIC PRESENTATIONS

## Peer-Reviewed Conferences

**Cheah, Y. H.** (Accepted). *Exploring K-12 teachers' instructional technology roles in teaching underserved students*. 2024 AERA Annual Meeting, Philadelphia, PA.

**Cheah, Y. H.** & Hughes, J. E. (2023, April). *Teaching underserved students with technology: Unpacking K-12 teachers' perceptions and practices*. 2023 AERA Annual Meeting, Chicago, IL.

**Cheah, Y. H.** & Hughes, J. E. (2022, October). *Factors that influence K-12 teachers' technology use to promote equitable learning*. Association for Educational Communications & Technology (AECT) Conference, Las Vegas, NV.

**Cheah, Y. H.** & Hughes, J. E. (2022, April). *Exploring K-12 teachers' technology use for equitable learning: A multiple regression approach*. 2022 AERA Annual Meeting, San Diego, CA.

**Cheah, Y. H.**, Shi, Y., & Rosenblum, J. A. (2022, April). *Understanding university instructors' technostress for online teaching*. 2022 AERA Annual Meeting, San Diego, CA.

Cai, Y., **Cheah, Y. H.**, Shi, Y., & Rosenblum, J. A. (2021, November). *Graduate instructors' technostress of engaging in emergency online teaching during COVID-19 pandemic*. Association for Educational Communications & Technology (AECT) Conference, Chicago, IL.

Shi, Y., **Cheah, Y. H.**, & Hughes, J. E. (2021, April). *Examining educational technology courses: Is online and blended learning the way forward?* AERA Annual Meeting (Virtual Conference).

**Cheah, Y. H.**, Oliveri, A. R., & Hughes, J. E. (2020, November). *A look inside the classroom: How do K-12 teachers use technology to promote equitable learning?* Association for Educational Communications & Technology (AECT) Conference (Virtual Convention).

**Cheah, Y. H.** & Hughes, J. E. (2020, April). *K–12 teachers' technology adoption to promote equitable learning: A literature review*. AERA Annual Meeting, San Francisco, CA http://tinyurl.com/rdxh4gy (Conference Cancelled).

**Cheah, Y., H.**, Li, C. L., & Hughes, J. E. (2020, April). *The relationship between U.S. students' technology access and use and their science achievement*. AERA Annual Meeting, San Francisco, CA http://tinyurl.com/rgtxjah (Conference Cancelled).

Hughes, J. E., **Cheah, Y. H.**, Shi, Y., & Hsiao, K.-H. (2019, October). *A comparison of pre-service and in-service teachers' most valued technology-supported activities for teaching and learning*. Association for Educational Communications & Technology (AECT) Conference, Las Vegas, NV.

Hsu, H. P., **Cheah, Y. H.**, & Hughes, J. E. (2019, June). *From beginner to expert: A teacher's reflective practice of applying augmented reality*. Annual Meeting of International Society for Technology in Education (ISTE), Philadelphia, PA.

Hsu, H. P., **Cheah, Y. H.**, & Hughes, J. E. (2019, April). *A longitudinal and micro-level view of one teacher's technology integration practices: Augmented reality in science*. AERA Annual Meeting, Toronto, Canada.

**Cheah, Y. H.**, Chai, C. S., Toh, Y. (2019, March). *Teachers' TPACK evolvement in a technology-mediated elementary science innovation: A translation perspective*. Society for Information Technology and Teacher Education (SITE) Conference, Las Vegas, NV.

Papendieck, A., **Cheah, Y. H.**, Eliason, C., & Clarke, J. (2018, June). *Mapping research and writing mentorship assemblages in a mixed cohort course-based research experience.* 13th International Conference of the Learning Sciences (ICLS), London, U.K.

Huang, J. S., & **Cheah, Y. H.** (2018, January). *Growing teacher laterality for teacher agentic learning*. International Congress and School Effectiveness and Improvement (ICSEI) Conference 2018, Singapore.

Toh, Y., & **Cheah, Y. H.** (2017, June). *Enabling an innovation ecosystem: A school's journey of navigating multifarious challenges of technology-mediated change process*. Redesigning Pedagogy International Conference 2017, Singapore.

**Cheah, Y. H.**, Muhammad, F. H., Chai, C. S., & Toh, Y. (2016, May). *The impact of a professional learning community on teacher learning and practice*. 20th Global Chinese Conference on Computers in Education, Hong Kong.

Chai, C. S., Low, J., **Cheah, Y. H.**, Toh, Y., & Lee, J. (2016, May). *Exploring Singapore primary three students' perception of science learning supported by mobile computing devices*. 20th Global Chinese Conference on Computers in Education, Hong Kong.

Lee, P. P. F., Tan, A.-L., & **Cheah, Y. H.** (2015, January). *Forms of interaction and their impact on in-service teachers' argumentative discourse*. Teaching and Learning Forum, Perth, Australia.

Tan, A.-L., Lee, P. P. F., & **Cheah, Y. H.** (2014, December). *Arguing to learn content and arguing to apply content: Forms of interaction*. Second International History, Philosophy and Science Teaching (IHPST) Asian Regional Conference, Taipei, Taiwan.

Lee, P. P. F., **Cheah, Y. H.**, & Tan, A.-L. (2014, November). *Forms of interaction in pre-service science teachers' argumentative discourse: A case study*. International Science Education Conference (ISEC), Singapore.

**Cheah, Y. H.**, Tan, A.-L., & Lee, P. P. F. (2014, July). *Supporting scientific argumentation in pre-service teachers: A case study*. International Conference of Science Educators and Teachers (ISET), Phuket, Thailand.

Lee, P. P. F., Tan, A.-L., & **Cheah, Y. H.** (2014, July). *Forms of interaction and their impact on pre-service science teachers' argumentative discourse*. Australasian Science Education Research Association (ASERA) Conference, Melbourne, Australia.

**Cheah, Y. H.** (2010, September). *Have fun learning decimals!* National Education Conference for Underperforming Students 2010, Kuala Lumpur, Malaysia.


## Academic Panels, Talks & Workshops

**Cheah, Y. H.** (2023, October). *Promoting equitable learning with technology: Considering teachers' personal and contextual influences*. Guest lecture for graduate course (ED PS 7440): Learning Sciences Seminar, invited by Dr. Chenglu Li, College of Education, The University of Utah, UT.

**Cheah, Y. H.**, & Pan, Z. (2022, February). *Navigating the process about advancing to doctoral candidacy*. Guest lecture for graduate course (EDC 396): Doctoral Seminar for Learning Technologies, invited by Dr. Jason Rosenblum, College of Education, The University of Texas at Austin, Austin, TX.

Harris, E., **Cheah, Y. H.**, Londono, F. V., Nguyen, U., Zengilowski, A., & Thomas, J. (2021, March). *PhD Panel for Campus Visit Day*, invited by College of Education, The University of Texas at Austin, Austin, TX.

**Cheah, Y. H.** (2019, November). *Trustworthiness and writing of qualitative research*. Guest lecture for graduate course (EDC 386R): Introduction to Qualitative Research, invited by Dr. Alina Pruitt, College of Education, The University of Texas at Austin, Austin, TX.

**Cheah, Y. H.** (2014, September). *The development and challenges faced by the Malaysian independent secondary schools in educating underperforming students*. Invited talk by Malaysia Chinese Education Conference, Ipoh, Malaysia.

Saw, G., **Cheah, Y. H.**, & Look, F. L. (2014, September). *Data analysis and regression modelling*. Invited workshop by Confucian Private Secondary School, Kuala Lumpur, Malaysia.

**Cheah, Y. H.** (2010, September). *The development of a special guidance education sub-system for underperforming students in Confucian Private Secondary School*. Invited talk by National Education Conference for Underperforming Students 2010, Kuala Lumpur, Malaysia.

## Media Mentions

Chavez, J. (2019). Virtual reality: The latest frontier in classroom technology. *ATPE News Magazine, 40*(1). Available: https://www.atpe.org/en/News/ATPE-News-Archives/ATPE-News-Fall-2019/Virtual-Reality-The-Latest-Frontier-in-Classroom

## HONORS AND DISTINCTIONS

### Research Fellowships

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| 2022 | **The Cora Merriman Martin Scholarship.** College of Education, The University of Texas at Austin. ($ 4,000) |
| | **The Janey and Melvin Lack Endowed Graduate Fellowship in Education.** College of Education, The University of Texas at Austin. ($ 900) |
| 2021 – 2022 | **University Graduate Continuing Fellowship.** Graduate School, The University of Texas at Austin. ($ 32,000) |
| 2021 | **Richard A. "Porky" Haberman Endowed Graduate Fellowship in Teacher Education.** College of Education, The University of Texas at Austin. ($ 3,500) |
| 2020 | **The Janey and Melvin Lack Endowed Graduate Fellowship in Education.** College of Education, The University of Texas at Austin. ($ 1,350) |
| 2019 | **The Cora Merriman Martin Scholarship.** College of Education, The University of Texas at Austin. ($ 3,800) |
| 2017 – 2019 | **Recruitment Fellowship.** Graduate School, The University of Texas at Austin. ($ 32,000) |

### Research Awards

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| 2023 | **Technology as an Agent of Change in Teaching and Learning SIG: Graduate Travel Award.** 2023 AERA Annual Meeting. ($ 500) |
| 2022 | **Division D Graduate Student In-Progress Research Gala: Top-10 Papers.** 2022 AERA Annual Meeting. For: Cheah, Y. H. *K-12 Teachers' instructional technology use to promote equitable learning: A mixed-methods approach.* |
| 2020 | **Technology as an Agent of Change in Teaching and Learning SIG: Best Paper Award.** 2020 AERA Annual Meeting. For: Cheah, Y. H., & Hughes, J. E. *K-12 teachers' technology adoption to promote equitable learning: A literature review.* |

        **Division D Graduate Student In-Progress Research Gala: Top-10 Papers.** 2020 AERA Annual Meeting. For: Cheah, Y. H. *Conceptualizations, approaches and environmental supports that frame K-12 teachers' equitable practices with technology.*

2019 – 2023      **Faculty/Student Collaboration Award.** College of Education, The University of Texas at Austin.

2019      **Professional Development Award.** Graduate School, The University of Texas at Austin.

## Research Grants

2022      **Graduate Student Research Award.** College of Education, The University of Texas at Austin. For: Cheah, Y. H. *K-12 Teachers' Instructional Technology Use to Promote Equitable Learning: A Mixed-Methods Approach.* ($ 2,000)

## RESEARCH EXPERIENCE

2022 – 2023      **Graduate Research Assistant**, Department of Special Education, College of Education, The University of Texas at Austin (PI: Dr. Sarah Powell)
Research project: *Developing elementary students' algebraic reasoning and mathematics word problem solving competency*
(This research project received a three-million-dollar grant from the U.S. Department of Education)

2021 – 2023      **PI,** Department of Curriculum and Instruction, College of Education, The University of Texas at Austin
Dissertation project: *Investigating K-12 Teachers' instructional technology use to promote equitable learning: A mixed-methods approach*

2020 – 2023      **Co-PI,** Department of Curriculum and Instruction, College of Education, The University of Texas at Austin (PI: Dr. Jason Rosenblum)
Research project: *Understanding university instructors' technostress and their online teaching during COVID-19 pandemic*

2019 – 2021      **PI,** Department of Curriculum and Instruction, College of Education, The University of Texas at Austin
Research project: *Unpacking K-12 teachers' technology-supported, equitable practices: A mixed-methods systematic review*

2018 – 2019      **Graduate Research Assistant,** Department of Curriculum and Instruction, College of Education, The University of Texas at Austin (PI: Dr. Joan Hughes)
Research project: *Exploring pre-service and in-service teachers' pedagogical reasoning underlying their instructional technology use*

2018 – 2019  **Co-PI,** Department of Curriculum and Instruction, College of Education, The University of Texas at Austin (PI: Dr. Hsiao-Ping Hsu)
Research project: *A middle school teacher's reflective design of integrating augmented reality in the science classroom*

June/July 2017  **Research Associate,** National Institute of Education, Nanyang Technological University, Singapore (PI: Dr. David Junsong Huang)
Research project: *Cultivating Singapore teachers' laterality through networked learning community*

2015 – 2017  **Research Associate,** National Institute of Education, Nanyang Technological University, Singapore (PI: Dr. Yancy Toh; Co-PI: Dr. Ching Sing Chai)
Research project: *Multilevel technology integration for diffusing complex pedagogical innovations*

2013 – 2015  **Research Assistant,** National Institute of Education, Nanyang Technological University, Singapore (PI: Dr. Peng Foo Lee; Co-PI: Dr. Aik Ling Tan)
Research project: *Developing scientific argumentation skills in pre-service and in-service science teachers*


## TEACHING PROFILE

### Teaching and Curriculum Design Experience

Spring 2023  **Assistant Instructor (EDC 390T: Issues and Strategies for Instructional Technology Leaders)**, Department of Curriculum and Instruction, College of Education, The University of Texas at Austin

Fall 2019  **Assistant Instructor (EDC 386R: Introduction to Qualitative Research)**, Department of Curriculum and Instruction, College of Education, The University of Texas at Austin

2018 – 2021  **Graduate Assistant & Curriculum Developer**, Office of Instructional Innovation, College of Education, The University of Texas at Austin

2007 – 2012  **Head of Research and Development Department and Mathematics Teacher,** Confucian Private Secondary School, Malaysia

2001 – 2003  **Mathematics and Science Teacher,** Foon Yew High School, Malaysia


### Mentorship and DEI Experience

Spring 2022  **Mentor for Austin Independent School District Refugee Students.** College of Liberal Arts: Refugee Student Mentor Program, The University of Texas at Austin.

Spring 2021  **Facilitator of UT Daring Dialogue: Teacher Preparation Series about Educational Inequity.** College of Education, The University of Texas at Austin.

## <u>Teaching Awards</u>

2007          **Teaching Assistant Scheme Award.** College of Education, University
              Technology Malaysia. (≈ USD 350)

## PROFESSIONAL SERVICE

## <u>Journal Reviewer</u>

2022          *Research in Science and Technological Education* [2022 Impact Factor 1.6; 2022
              Five-Year Impact Factor 1.8]

2021          *Journal of Educational Computing Research* [2022 Impact Factor 4.8; 2022 Five-
              Year Impact Factor 4.7]

              *AERA Open* [2022 Impact Factor 2.8; 2022 Five-Year Impact Factor 3.4]

## <u>Conference Reviewer</u>

2020 – 2022   *American Educational Research Association (AERA) Annual Meeting*

              *Association for Educational Communications & Technology (AECT) Conference*

2019 – 2020   *International Society for Technology in Education (ISTE) Annual Meeting*

2019, 2022    *Capital of Texas Undergraduate Research Conference*, The University of Texas at
              Austin

## <u>Community Service and DEI Engagement</u>

2020          *Teacher Education Forum Planning Committee*. The University of Texas at Austin,
              College of Education

2019 – 2020   *Teacher Education Graduate Student Advisory Group*. The University of Texas at
              Austin, College of Education

## PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA)
Association for Educational Communications and Technology (AECT)
Texas Computer Education Association (TCEA)