Yuhan (Jimmy) Lin

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EDUCATION:

The University of Maryland, College Park, MD   Anticipated 2025
Doctor of Philosophy in Education
>   *Department:* Teaching and Learning, Policy and Leadership
>   *Specialization*: Technology, Learning, and Leadership
>   *Advisor:* Dr. David Weintrop

University of Pennsylvania, Philadelphia, PA   Dec 2019
Master of Science in Education, Learning Sciences and Technologies
>   *Thesis Title:* Motivation and Learning in Computer Science Programming Education

The University of Georgia, Athens, GA   May 2018
Bachelor of Science, Mathematics
Bachelor of Science, Education, Mathematics Education
>   *Concentration*: Teaching Advanced Mathematics

Keble College, University of Oxford, Oxford, UK   Mar – June 2016

University of Innsbruck, Innsbruck, Austria   Jul – Aug 2016

PUBLICATIONS:

Walker, B. B., **Lin, Y.**, & Mccline, R. M. (2018). Q Methodology and Q-Perspectives® Online: Innovative Research Methodology and Instructional Technology. TechTrends. doi:10.1007/s11528-018-0314-5

CONFERENCE & WORKSHOP PRESENTATIONS:

Lin, Y. & Weintrop, D. (2021, April). *The Current Landscape of Block-based Programming Environments*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA) 2021. Virtual.

Lin, Y. & Weintrop, D. (2021, April). *Bridging the Gap from Blocks-to-Text: Designs for Supporting Learners moving from Block-based to Text-based Programming*. Paper presented at the University of Maryland COE Graduate Student Organization Student Research Symposium. Virtual.

Fields, D. A., **Lin, Y.**, Jayathirtha, G. & Kafai, Y. B. (2020, November). *A Redesigned Reconstruction Kit for Rapid Collaborative Debugging and Designing of E-Textiles.* The Lightning Debugging Symposium: A Conversation About Research and Practice in K-12 CS Education, Convened by Creative Technology Research Lab (CTRL), College of Education, Univ. of Florida. Virtual.

Lin, Y. & Fields, D. (2020, November). *Understanding High School Students' Debugging Strategies through Think-Aloud Protocols*. Paper presented at the 2020 Learning Sciences Graduate Student Conference (LSGSC), University of Wisconsin, Madison, WI.

Fields, D. A., **Lin, Y.**, Jayathirtha, G. & Kafai, Y. B. (2020, October). A Redesigned Reconstruction Kit for Rapid Collaborative Debugging and Designing of E-Textiles. *Proceedings of ACM Fablearn conference (FABLEARN'20)*. doi: 10.1145/3386201.3386207

Walker, B., & **Lin, Y**. (2019, September). *Custom Your Q: Real Time Results for Classrooms and Participatory Q Conversations*. Paper presented at the 35rd Annual Conference for International Society for the Scientific Study of Subjectivity, University of Naples Federico II & Associazione Scientifica Centro di Portici, Naples, Italy.

Walker, B., & **Lin, Y.** (2018, October). *Q-Methodology primer: A mixed methods approach to research*. Paper presented at the Association for Educational Communications & Technology Conference, Kansas City, MO

Walker, B., & **Lin, Y.** (2018, October). *Deepening Reflection and Discussion in the Classroom: Hearing all Student Voices with Q-Perspectives®*. Paper presented at the Innovation in Teaching Conference, University of Georgia, Athens, GA

Walker, B., & **Lin, Y.** (2018, October). *Customized Online, Flipped, and F2F Classroom Use of Q-Perspectives® with Real-Time Results*. Paper presented at the 34rd Annual Conference for International Society for the Scientific Study of Subjectivity, Charlotte, NC

Lin, Y. (2018, April). *Understanding Students' Subjective Understanding with Q-Perspectives®.* Poster session presented at the 2018 University of Georgia Center for Undergraduate Research Opportunities Symposium, Athens, GA

Walker, B., & **Lin, Y.** (2017, November). *Q-Methodology primer: A mixed methods approach to research*. Paper presented at the Association for Educational Communications & Technology Conference, Jacksonville, FL

Walker, B., & **Lin, Y.** (2017, October). *Reflection, learning, and scholarship with Q-Perspectives*. Paper presented at the Innovation in Teaching Conference, University of Georgia, Athens, GA

Walker, B., **Lin, Y.,** & Li, T. (2017, September). *Q-Perspectives®: Inviting new audiences to Q with real-time classroom results*. Paper presented at the 33rd Annual Conference for International Society for the Scientific Study of Subjectivity, Glasgow Caledonian University, Glasgow, Scotland, UK.

Walker, B., & **Lin, Y.** (2017, September). *Designing for real-time results*. Paper presented at the Instructional Design and Development at the University of Georgia Conference, Athens, GA, USA.

INVITED TALKS:
Walker, B., & **Lin, Y.** (2020, May). *Q-Methodology workshop* Invited Talk at the Learning, Design and Technology Department, Purdue University, Online

CERTIFICATIONS:
Apple Teacher Swift Playground Certificate   Feb 2019
Mental Health First Aid USA   Jan 2019 — Jan 2022
Certificate in Educational Psychology and Instructional Technology *From **The University of Georgia***   May 2018
Apple Teacher Certificate   Oct 2016

RESEARCH EXPERIENCE:
The University of Maryland, College Park, MD
Research Assistant for David Weintrop   May 2020 – Present
- Develop taxonomy for Block-based programming environment and examine the transition for Block-based programming to text-based programming
- Research on VEX Virtual Robotics (https://vr.vex.com) platform

University of Pennsylvania, Philadelphia, PA
Research Assistant for Yasmin Kafai   Sep 2018 – May 2020
- Develop and test prototype using Micro:bit with Python for Explore Computer Science (ECS) Electronic-textile curriculum
- Rewrite ECS E-textile curriculum unit from Arduino C to Python
- Create prototype with paper circuit and Chibitronic and co-facilitate after-school program with 3 other graduate students with 16 high school students in Franklin Institute
- Perform qualitative research on students' computer programming debugging skills with reconstruction kit
- Transcribe and create coding rubric on students' pre-interview of computer programming debugging skills.
- Create BioMakerLab website (https://sites.google.com/view/biomakerlab/)
Teaching Assistant for Catalyst @ Penn GSE   Sep 2019 – May 2020
- Code previous *Experiences in Applied Computational Thinking (EXACT)* professional development program interview data about teacher PD design features
- Develop Raspberry Pi Workshop curriculum for *Computational Thinking in Action (CTIA)*
Teaching Assistant for Iryna Kozlova   Sep 2019 – Nov 2019
- Create GRE Mathematics task in 3D virtual world "*Virbela*" for professional development to test preparation teachers from China New Oriental Group

- Facilitated two workshops with total of 70 teachers from New Oriental Group

Research for the Advancement of Innovative Learning, University of Georgia, Athens, GA
Research Assistant   Sep 2016 – Dec 2016
- Created Robotics Curriculum targeted for 4th grade students with RoboRobo for them to understand basic robotics movement
- Facilitated two Robotics Training session for Middle School Science Education Program with about 20 pre-serviced teachers each session

TECHNICAL EXPERIENCE:
J.W. Fanning Institute for Leadership Development, University of Georgia, Athens, GA
Summer Computer Programmer (Full-stack)   May 2018 – Aug 2018
- Migrated *Ruby on Rails* application to Amazon Web Service (AWS)
- Maintained sustainability of the *Ruby on Rails* application on AWS
- Created new functions and features for Q-Perspectives® https://app.qperspectives.com
- Created user manual for the surveys and webinars created as a student worker.

Student Worker – **Full-stack Computer Programmer**   Aug 2015 – May 2018
- Created a database web application by *Ruby on Rails* for Q-Perspectives® by using Q-Methodology factor analysis written with *R* for real-time analysis in over 50 sessions https://app.qperspectives.com
- Created database web apps by *Ruby on Rails* for Athens Peer Court attendance system, Conflict Style Quiz, Mentoring Style Quiz and Risk Propensity Quiz with easy to use user interfaces and real-time reports for faculty to use in their leadership training
- Created an online learning website by *Ruby on Rails* for Youth Leadership in Action
- Created computer games by *HTML5 & JavaScript* and website by *Ruby on Rails* for youth leadership development
- Received: University of Georgia Center for Undergraduate Research Opportunities (CURO) Research Assistantship

E Fund Management Co., Ltd.*,* Shanghai, China
Intern   June 2017 – July 2017
- Tested user interface and gave suggestions about the format and design across all different platforms
- Researched ways to promote mutual fund products to end-users

TEACHING EXPERIENCE:
University of Pennsylvania, Philadelphia, PA
- EDUC 508 - Maker Studio - *Studio Assistant*   2020 Spring
- EDCE 592 - Using Machines for Problem Solving - *Teaching Assistant*   2020 Spring
- EDCE 595 - Using Data Practices for Problem Solving - *Teaching Assistant*   2020 Spring
- EDCE 596 - Computational Thinking with Scratch - *Teaching Assistant*   2020 Spring
- EDCE 590 - Programming using Python - *Teaching Assistant*   2019 Fall
- EDCE 592 - Using Machines for Problem Solving - *Teaching Assistant*   2019 Fall
- EDCE 595 - Using Data Practices for Problem Solving - *Teaching Assistant*   2019 Fall

Athens Technical College, Athens, GA
- MATH 1101 - Mathematics Modeling - *Student Teaching*   2017 Fall

Jefferson High School, Jefferson, GA
- Advanced Algebra – *Practicum*   2017 Spring

Clarke Middle School, Athens, GA
- *Practicum*   2016 Fall

Clarke Central High School , Athens, GA
- *Practicum*   2015 Fall

REVIEWERS:
JOURNALS:

Educational Technology Research and Development — 2020 - 2021

CONFERENCES:

ACM Interaction Design and Children (IDC) — 2021
Learning Science and Graduate Student Conference — 2020

PROFESSIONAL ORGANIZATIONS:

American Educational Research Association — 2020 – Present
International Society of the Learning Sciences — 2020 – Present
International Society for the Scientific Study of Subjectivity — 2017 – 2019
Association for Educational Communications and Technology — 2017 – 2019
National Council of Teachers of Mathematics — 2015 – 2018

TRADEMARK:

- Owner of "Q-Perspectives® Online"

SKILLS:

Programming Languages: Proficient in Full stack development, Ruby on Rails, Python, Django, HTML5, JavaScript, MySQL, PostgreSQL, CSS, Git, Heroku, R. Good working knowledge of Ubuntu, Docker, React, PHP, Node.JS, Socket.IO, JAVA, Ionic Framework, AngularJS.

Computer: Proficient in Apple Configurator, MDM (Mobile Device Management), Office 365, Google Apps, Google Classroom.

Languages: Fluent in Chinese and English, both written and verbal.