Junnan Yu

<u>junnan.yu@polyu.edu.hk | www.junnanyu.com | The Little Design Lab | Update: Dec 2024</u> Address: Room V902b, 9/F, Jockey Club Innovation Tower (Block V), Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

Appointments

2022.08–Now The Hong Kong Polytechnic University

Assistant Professor, School of Design

Summer 2022 University of Colorado Boulder

Temporary Research Faculty, Department of Information Science

Summer 2020 Harvard University

Research Intern, The Berkman Klein Center for Internet & Society

Education

2017.08-2022.05 University of Colorado Boulder | Boulder, CO, USA

- Doctor of Philosophy in Information Science
 - Thesis: A Design Exploration of Leveraging Physical Play to Support Computational Learning for Young People
 - Advisor: Ricarose Roque
 - Committee Members: Ricarose Roque (Chair), Casey Fiesler, Ben Shapiro, Joseph Polman, Victor R. Lee

2014.09–2017.03 Shanghai Jiao Tong University | Shanghai, China

- Master of Arts in Design (Graduated with Honor)
- Advisor: Ting Han
- School of Media & Design

2010.09–2014.06 **Zhejiang University** | Hangzhou, China

- Bachelor of Engineering in Industrial Design
- College of Computer Science and Technology

Research Interests

- Interactive Learning Technologies and Equity
- Computing Education for Young People
- Child-Computer Interaction
- Design Research

	Grants
2023–2025 (Competitive)	 PI, School Collaborative Research Fund with Non-local Institutions, The Hong Kong Polytechnic University & University Grants Committee of Hong Kong Project: Investigating the Design of Culturally Responsive Computational Learning Tools for Children Co-Investigator: Dr. Natalie Rusk (MIT Media Lab, Lifelong Kindergarten Research Group) Amount: HKD 400,000
2023–2025 (Competitive)	 PI, Departmental Supporting Fund (UGC), The Hong Kong Polytechnic University Project: Combining Computational Learning with Physical Play for Young Children: Investigating the Design of Learning Tool and Experience Amount: HKD 100,000
2023–2024 (Competitive)	 PI, Departmental General Research Fund, The Hong Kong Polytechnic University & University Grants Committee of Hong Kong Project: Parent-Child Joint Media Engagement with Learning Technologies in Hong Kong Amount: HKD 100,000
2023–2024 (Competitive)	 CO-PI, Departmental General Research Fund, The Hong Kong Polytechnic University & University Grants Committee of Hong Kong Project: Towards a subjective well-being society from a positive design perspective: A case study of Hong Kong Amount: HKD 89,200
2023–2024	 PI, Internal Research Fund, The Hong Kong Polytechnic University & University Grants Committee of Hong Kong Project: Al Literacy for Children: An Overview of Learning Content and Tools Amount: HKD 250,000
2022–2024	 PI, Internal Research Fund, The Hong Kong Polytechnic University & University Grants Committee of Hong Kong Project: Investigating Gender-related Design Features in Computational Toys and Kits for Young Children Amount: HKD 150,000
2020–2021 (Competitive)	 PI, Outreach Micro Grants, University of Colorado Boulder Project: Computational Physical Play Workshops in Community-based Organizations Amount: USD 1,870
2020	CMCI Graduate Student Travel Grant (USD1,000), University of Colorado Boulder
2018	CMCI Graduate Student Travel Grant (USD 750), University of Colorado Boulder
	Honors & Awards

Best Paper Honorable Mention Award (Two) The ACM CHI 2024 Conference 2024

Shortlisted for the PolyU Young Innovative Researcher Award 2024

Research and Innovation Office, The Hong Kong Polytechnic University

The Graduate School Summer Fellowship

University of Colorado Boulder

2021 Graduate Research Award

Department of Information Science, University of Colorado Boulder

The Gerald C. Bean Scholarship

College of Media, Communication and Information, University of Colorado Boulder

2018 Student Best Paper Award

ACM Conference on Interaction Design and Children (IDC)

2017 Outstanding Graduate

Shanghai Jiao Tong University

2015&2016 National Scholarship for Graduate Students (Two)

The Ministry of Education of China

2012 Winner of the Innovative Electric Heater Design Competition

Chinese Industrial Design Association (Top 10 out of 1500)

Peer Reviewed Publications [Google Scholar Page]

Authors <u>underlined</u> are students or research assistants I mentored for the work

Journals:

- [J7] Zhou, Z., <u>Li, Y.</u>, & **Yu**, J. (2024). Exploring the application of LLM-based AI in UX design: an empirical case study of ChatGPT. *Human-Computer Interaction*, 1-33. (Acceptance Rate: 8%; Impact Factor: 4.5)
- [J6] Yu, J., Xu, T., Kelley, C., Ruppert, J., & Roque, R. (2024). Leveraging Physical Activities to Support Learning for Young People via Technologies: An Examination of Educational Practices Across the Field. *Review of Educational Research*, 1-47. (Acceptance Rate: 5.3%; Five-Year Impact Factor: 16.4)
- [J5] Zhou, Z., Li, J., Zhang, Z., Yu, J., & Duh, H. (2024). Examining How the Large Language Models Impact the Conceptual Design with Human Designers: A Comparative Case Study. *International Journal of Human–Computer Interaction*, 1–17. (Impact Factor: 3.4)
- [J4] Xu, T.*, Yu, J.*, Doyle, D., & Voida, S. (2023). Technology-Mediated Strategies for Coping with Mental Health Challenges: Insights from People with Bipolar Disorder. Proc. ACM Hum.-Comput. Interact., 7(CSCW2), Article 240, 1–31. (CSCW '23) (*Equal contribution)
- [J3] Yu, J., Granados, J., Hayden, R., & Roque, R. (2021). Parental Facilitation of Young Children's Technology-based Learning Experiences from Nondominant Groups During the COVID-19 Pandemic. *Proc. ACM Hum.-Comput. Interact.*, 5(CSCW2), Article 307, 1–27. (*CSCW '21*)

- [J2] Yu, J., Ruppert, J., Roque, R., & Kirshner, B. (2020). Youth Civic Engagement Through Computing: Cases and Implications. *ACM Inroads*, 11(4), 42–51.
- [J1] Yu, J., & Roque, R. (2019). A Review of Computational Toys and Kits for Young Children. *International Journal of Child-Computer Interaction*, 21, 17–36.

Proceedings:

- [C14] Yu, J., Qi, X., & Yang, S. (2024). Parent-Child Joint Media Engagement Within HCI: A Scoping Analysis of the Research Landscape. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24*) (Article 121, pp. 1–21). Honolulu, HI, USA.
- [C13] Luo, Y., Yu, J., Liang, M., Wan, Y., Zhu, K., & Santosa, S. (2024). Emotion Embodied: Unveiling the Expressive Potential of Single-Hand Gestures. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24*) (Article 404, pp. 1-17). Honolulu, HI, USA. (Best Paper Honorable Mention Award, Top 5%)
- [C12] Cho, J., Choi, D., Yu, J., & Voida, S. (2024). Reinforcing and Reclaiming the Home: Cospeculating Future Technologies to Support Remote and Hybrid Work. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)* (Article 1026, pp. 1-28). Honolulu, HI, USA. (Best Paper Honorable Mention Award, Top 5%)
 - [C11] Cowit, N., & Yu, J. (2024). Supporting Physically Active CS-Ed for Children: Exploring the Design of Physical Play Friendly Coding Blocks. In Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (CHI EA '24) (Article 308, pp. 1–7). Honolulu, HI, USA.
 - [C10] **Yu, J.**, Hayden, R., & Roque, R. (2023). Exploring Computational Thinking with Physical Play through Design. In *Proceedings of the 22nd Annual ACM Interaction Design and Children Conference (IDC '23*) (pp. 124–136). Chicago, IL, USA.
 - [C9] <u>Cen, J.,</u> & **Yu, J.** (2023). Examining Gendered Communications of Coding Kits for Young Children. In *Proceedings of the 22nd Annual ACM Interaction Design and Children Conference (<i>IDC '23*) (pp. 624-629). Chicago, IL, USA.
 - [C8] <u>Cen, J.</u>, Xu, T., & **Yu, J.** (2023). Examining Gender-oriented Design Features in Computational Toys and Kits for Young Children. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems* (*CHI '23*) (Article 303, pp. 1-19). Hamburg, Germany.
 - [C7] Yu, J., Widman, S., & Roque, R. (2023). Family Negotiation in Joint Media Engagement with Creative Computing. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23*) (Article 92, pp. 1–15). Hamburg, Germany.
 - [C6] Yu, J., & Roque, R. (2022). Young Children's Perceptions of Coding and Implications. In *Proceedings of the 21st Annual ACM Interaction Design and Children Conference* (*IDC '22*) (pp. 448-451). Braga, Portugal.

- [C5] Yu, J., <u>DeVore, A.</u>, & Roque, R. (2021). Parental Mediation for Young Children's Use of Educational Media: A Case Study with Computational Toys and Kits. In *Proceedings of* the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21) (Article 475, pp. 1-12). Yokohama, Japan.
- [C4] Yu, J., Bai, C., & Roque, R. (2020). Considering Parents in Coding Kit Design: Understanding Parents' Perspectives and Roles. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20)* (pp. 1-14).
- [C3] Yu, J., Zheng, C., Tamashiro, M. A., <u>Gonzalez-millan, C.</u>, & Roque, R. (2020). CodeAttach: Engaging Young Children in Computational Thinking Through Physical Play Activities. In *Proceedings of the Fourteenth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '20*) (pp. 453-459). Sydney, Australia.
- Yu, J., & Roque, R. (2018). A Survey of Computational Kits for Young Children. In Proceedings of the 17th ACM Conference on Interaction Design and Children (IDC '18) (pp. 289-299). Trondheim, Norway. (Student Best Paper Award, Top 5%)
 - [C1] Yu, J., Ma, X., & Han, T. (2017). Usability Investigation on the Localization of Text CAPTCHAs: Take Chinese Characters as a Case Study. In *Proceedings of the Transdisciplinary Engineering-24th ISPE Inc., International Conference* (Vol. 5, 10 pages).

Patents

Yu, J., Ma, X., & Han, T. "A faucet with bacteria scanning function", Chinese Patent, 2016: CN201610072274.0

Posters, Talks, Presentations & Workshops

- May 2024 ACM CHI 2024 Workshop on Methods for Family-Centered Design, Honolulu, Hawaii, USA
 - Workshop organizing committee, facilitator, and participant
- May 2024 ACM CHI 2024 Paper Presentation, Honolulu, Hawaii, USA
 - Paper: "Parent-Child Joint Media Engagement Within HCI: A Scoping Analysis of the Research Landscape"
- Jun 2023 ACM IDC 2023 Paper Presentation, Chicago, USA
 - Paper: "Exploring Computational Thinking with Physical Play Through Design"
- Jun 2023 ISLS 2023 Symposium on "Designing to Disrupt While Encountering Disruption: Engaging with the Unexpected in Educational Research and Practice"
 - Yu, J. Symposium Poster: "Disruption of Gender Representation in Computational Toys and Kits for Young Children from a Design Perspective"
- Apr 2023 ACM CHI 2023 Paper Presentation, Hamburg, Germany
 - Talk: "Family Negotiation in Joint Making with Creative Computing"

Apr 2023 ACM CHI 2023 Workshop on Child-Centred Al Design: Definition, Operation and Considerations, Hamburg, Germany

• Zhou, Z., & Yu, J. Workshop Paper: "Adapt a Generic Human-Centered AI Design Framework in Children's Context"

Jun 2022 ACM IDC 2022 Workshop on "Fun in Learning"

• Workshop paper: "Designing for Fun in Learning: Reflections from a Case Exploration of Combining Physical Play with Coding for Young People"

Jan 2022 The Hong Kong Polytechnic University

Talk: "Engaging Young People in Playful Computational Learning Experiences"

Dec 2021 Shanghai Jiao Tong University

• Talk: "Broadening Participation in Computing: Designing Playful Computational Learning Experiences for Young People"

Nov 2021 National University of Singapore

- Talk: "An Exploration of Leveraging Physical Play to Support Computational Learning for Young People"
- Workshop: "Animate Yourself with Coding"

Nov 2021 LSGSC 2021 Lightning Talk

Talk: "Physical Activity as a Learning Medium: Characteristics and Opportunities"

Oct 2021 The Hong Kong University of Science and Technology

 Talk: "An Exploration of Leveraging Physical Play to Support Computational Learning for Young People"

Oct 2021 ACM CSCW 2021 Paper Presentation

- Paper: "Parental Facilitation of Young Children's Technology-based Learning Experiences from Nondominant Groups During the COVID-19 Pandemic"
- Jun 2021 ACM IDC 2021 Workshop "Translational IDC: Bridging the IDC Research-Practice Gap"

May 2021 ACM CHI 2021 Paper Presentation

• Paper: "Parental Mediation for Young Children's Use of Educational Media: A Case Study with Computational Toys and Kits"

Apr 2021 Information Science Seminar, University of Colorado Boulder

• Talk: "Parental Mediation for Young Children's Use of Educational Media: A Case Study with Computational Toys and Kits"

Jun 2018 ACM IDC 2018 Paper Presentation, Trondheim, Norway

Paper: "A Survey of Computational Kits for Young Children"

Teaching

Fall

Instructor [Fall 2022 - Present]

SD5513 Theories in Interaction Design

[Graduate; Lecture + Seminar] The Hong Kong Polytechnic University

Fall SD4761 Studio I: Information and Communication

[Undergraduate; Design Studio on User-Centered Design] The Hong Kong Polytechnic University

Fall SD4770 Capstone Project I: Interactive Media/Interaction Design

[Undergraduate; Design Capstone] The Hong Kong Polytechnic University

Summer SD5539 ISD Capstone Research Project

[Graduate; Design Capstone] The Hong Kong Polytechnic University

Spring SD3773 Information Architecture

[Undergraduate; Lecture-based] The Hong Kong Polytechnic University

Spring SD4762 Studio II: Networks and Communities

[Undergraduate; Design Studio on Co-Design/Participatory Design] The Hong Kong Polytechnic

University

Spring SD4771 Capstone Project II: Interactive Media/Interaction Design

[Undergraduate; Design Capstone] The Hong Kong Polytechnic University

Teaching Assistant

Fall 2022 SD5114, SD5115, SD5131 - IBD Interdisciplinary Essentials [Project Consultant]

[Graduate] The Hong Kong Polytechnic University

Spring 2020 INFO 1121 Designing Interactions

[Undergraduate] University of Colorado Boulder

Spring 2019 INFO 1201 Computational Reasoning I (Python)

[Undergraduate] University of Colorado Boulder

Spring&Fall 2018 INFO 1201 Computational Reasoning I (Python)

[Undergraduate] University of Colorado Boulder

Fall 2017 INFO 1201 Computational Reasoning I (Python)

[Undergraduate] University of Colorado Boulder

Spring 2015 AR 903 The Art of Design Innovation

[Undergraduate] Shanghai Jiao Tong University

Fall 2014 ID 310 Product Design II

[Undergraduate] Shanghai Jiao Tong University

Guest Lecturer & Speaker

Oct 2023 ECE6248 Research Method in Early Childhood Education

[Graduate] Education University of Hong Kong, led by Dr. Annie Yixun Li

Apr 2022 INFO 4609/5609 User Centered Design

[Graduate and undergraduate] University of Colorado Boulder, led by Dr. Ricarose Roque

Feb 2020 INSC 598 Child-Computer Interaction

[Graduate and undergraduate] University of Washington, led by Dr. Katie Davis

Fall 2020 INFO 3505 Designing for Creativity & Learning

Research Mentorship

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	Ph.D. Student Supervision
2024-Now	Yibo Wang (Chief supervisor; Ph.D. in Design, The Hong Kong Polytechnic University)
2024-Now	Xiang (Nathan) Qi (Chief supervisor; Ph.D. in Design, The Hong Kong Polytechnic University)
2024 Now	Kelly Yip Cheuk Ying (Co-supervisor; Ph.D. in Design, The Hong Kong Polytechnic University)
202 4 -11011	Keny Tip Cheak Ting (co supervisor, Th. D. in Design, The Hong Kong Folyteenine oniversity)
	Undergraduate/Graduate Research Assistant Supervision
2023-2024	Yangyu Huang (MSc in Multimedia and Entertainment Technology, The Hong Kong Polytechnic
2025-2024	University)
2022 2024	
2023-2024	Moon Lau (B.A. Interactive Media, The Hong Kong Polytechnic University)
2022-2024	Xiang (Nathan) Qi (MDes in Smart Service Design, The Hong Kong Polytechnic University)
2023-2023	Irene Cheung (B.E. HCI, Hong Kong University of Science and Technology)
2022–2023	Siqi Yang (Master of Design in Intelligent System Design, The Hong Kong Polytechnic University)
2023	Teresa Leung (Research Assistant, The Hong Kong Polytechnic University)
2022–2023	Jingyao (Joan) Cen (Research Assistant, The Hong Kong Polytechnic University)
2021	Blanca Cerda Herrera (B.S. Neuroscience, University of Colorado Boulder)
2020	Julisa Granados (B.S. Psychology and Neuroscience, University of Colorado Boulder)
2019–2020	Andrea Devore (B.S. Technology, Arts, and Media, University of Colorado Boulder)
2019–2020	Christopher Gonzalez-millan (B.S. Computer Science, University of Colorado Boulder)
2019	Chenke Bai (B.S. Information Science, University of Colorado Boulder)
2018	Elizabeth Robinson (B.S. Computer Science, University of Colorado Boulder)
	Ph.D. Student Confirmation Panel Member
2024	Le (Leo) Fang (Ph.D. in Design, The Hong Kong Polytechnic University)
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	Le (Leo) Fang (Ph.D. in Design, The Hong Kong Polytechnic University)
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2024 2024 2024 2024 2024 2023 2023 2023–Now	Le (Leo) Fang (Ph.D. in Design, The Hong Kong Polytechnic University) Junjian Chen (Ph.D. in Design, The Hong Kong Polytechnic University) Ziyou (Ines) Yin (Ph.D. in Design, The Hong Kong Polytechnic University) Jun Zhang (Ph.D. in Design, The Hong Kong Polytechnic University) Cong Fang (Ph.D. in Design, The Hong Kong Polytechnic University) Yuxuan (Shawn) Wang (Ph.D. in Design, The Hong Kong Polytechnic University) Jingyi Wan (Ph.D. in Design, The Hong Kong Polytechnic University) Gui Shun (Ph.D. in Design, The Hong Kong Polytechnic University) Academic & Community Services Editorial Board Associate Editor, International Journal of Child-Computer Interaction Conference Committee & Organization ACM IDC 2025 Conference: Chair for the Work-in-Progress session

2024	Greater Bay HCl Forum Pre-CHl 2024: Award Chair
2024	ACM CHI 2024 Workshop: Organizing Committee for the Workshop on Methods for
	Family-Centered Design
2024	ACM CHI 2024 Conference: Associate Chair for the Late-Breaking Work session
2023	ACM CSCW 2023 Conference January Cycle: Associate Chair for the Paper Session
2023	ISLS 2023 Conference: Program Committee Member
2023	ACM CHI 2023 Conference: Associate Chair for Late-Breaking Work
2022	ACM CSCW 2023 Conference: July Cycle: Associate Chair for Paper Session
2022	ACM CSCW 2022 Conference: Associate Chair for Poster Session

Paper Reviewer

Proceedings:

- CHI: 2019 Now (Special Recognition for Outstanding Reviews)
- CSCW: 2020 Now (Special Recognition for Outstanding Reviews)
- IDC: 2019 NowTEI: 2019 Now
- DIS: 2020 Now
- Creativity & Cognition: 2021
- LSGSC 2021

Journals:

- ACM Transactions on Computing Education
- Educational Research Review (Recognized Reviewer)
- Computers & Education (Recognized Reviewer)
- International Journal of Child-Computer Interaction (Recognized Reviewer)
- Journal of Research in Childhood Education
- Journal of School Health
- International Journal of Human-Computer Interaction

Departmental Service

2023-Now

Member of School Research Committee, School of Design, The Hong Kong Polytechnic University

- Review internal grant applications
- Review Ph.D. applications
- Review graduate student performance
- Other research-related matters in the department

2023-Now

Undergraduate Admission Material Review and Interviews

2022

Member of the PolyU Design bidding team for 2024 Design Research Society Conference

Outreach Programs

Jun & Jul 2024

OctoStudio Coding Workshops for Young Children In collaboration with Community Centers in Shenzhen

Apr 2021

Remote Coding Workshops for Young Children

In collaboration with Boulder Public Library & I Have A Dream Foundation

Workshops on Coding & Physical Play for Children Feb 2020 In collaboration with the Museum of Boulder Computational Physical Play Workshops for Children Jul 2019 In collaboration with the University of Colorado Museum of Natural History Volunteer Student Volunteer for CSCW 2021 Conference Oct 2021 Computer Science Education Week 2021 Feb 2021 Boulder Public Library, Boulder, CO, USA. Led by Celeste Moreno Youth Maker Hangout Event Spring 2020 Boulder Public Library, Boulder, CO, USA The Fourth and Fifth Summer Camp of Innovative Design Elites 2015 & 2016 Shanghai Jiao Tong University, Shanghai, China Summer 2014 Asia Leadership Programme Zhejiang University & Singapore University of Technology and Design, Hangzhou, China