

# Dr. Yizhen Huang

Postdoctoral Researcher in Educational Psychology

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## Scientific Career

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### Postdoctoral Research Associate

Department of Research on Teaching and Teacher Education, Kiel University

*Kiel, Germany*

*2019–Present*

- Lead Professor: Prof. Dr. Thilo Kleickmann

### Postdoctoral Research Associate

Educational Research in Educational Sciences, Department of Education, University of Potsdam

*Potsdam, Germany*

*2018–Present*

- Lead Professor: Prof. Dr. Dirk Richter

## Education

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### Ph.D. in Education and Psychology

Combined Program in Education and Psychology, University of Michigan

*Ann Arbor, MI, United States*

*2016–2018*

- Graduate Date: August 17, 2018
- Dissertation Title: Learning from Teacher's Eye Movement: Expertise, Subject Matter and Video Modeling
- Doctoral Committee: Kevin F. Miller (chair), Kai S. Cortina, Richard D. Gonzalez, Priti R. Shah

### M.A. in Statistics

Dual Degree Program, University of Michigan

*Ann Arbor, MI, United States*

*2016–2018*

- Graduate Date: August 17, 2018

### M.S. in Psychology

Combined Program in Education and Psychology, University of Michigan

*Ann Arbor, MI, United States*

*2013–2016*

- Graduate Date: December 22, 2016

### B.S. in Psychology

School of Psychology, Beijing Normal University

*Beijing, China*

*2009–2013*

- Graduate Date: July 01, 2013

## Funded Research Projects

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### Compare interactive simulation and 360 video in virtual reality for teacher professional learning (€3,850)

University of Potsdam

*Kent, OH, United States and*

*Potsdam, Germany*

*2022*

- KoUP [Cooperation Funding at the University of Potsdam]
- Co-Principal Investigator. Co-PIs: Karl W. Kosco

### Virtual Reality in Teacher Education

Educational Research in the Educational Sciences, University of Potsdam

*Potsdam, Germany*

*2019–Present*

- Internal Funding
- Co-Principal Investigator. Co-PIs: Dirk Richter, Thilo Kleickmann, Eric Richter

### Understand Teacher's Professional Development Choices in Brandenburg

Educational Research in the Educational Sciences, University of Potsdam

*Potsdam, Germany*

*2018–2019*

- Internal Funding
- Co-Principal Investigator. Co-PIs: Eric Richter, Dirk Richter

## **Look through You: How First-person Perspective Video Promotes Perceptual Problem Solving? (\$3,000)**

*Ann Arbor, MI, United States*

Rackham Graduate School, University of Michigan

*2017–2018*

- Rackham Graduate Student Research Grant
- Principal Investigator. Co-PIs: Kevin F. Miller, Kai S. Cortina

## **Effects of Modeling that Convey Moral Standards on Delay of Gratification among Chinese and US Preschoolers (\$5,000)**

*Ann Arbor, MI, United States*

The International Institute, University of Michigan

*2016*

- International Institute Individual Fellowships
- Principal Investigator. Co-PIs: Kevin F. Miller, Kai S. Cortina

## **The Influence of First-person Perspective Video on Early Childhood Sex-typed Toy Choices (\$4,000)**

*Ann Arbor, MI, United States*

School of Education, University of Michigan

*2014*

- Professor & Mrs. Cho-Yee To Fund
- Principal Investigator. Co-PIs: Kevin F. Miller, Kai S. Cortina

## **Research Stay**

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### **Aggarwal-Blackburn Visiting Scholar**

*Kent, OH, United States*

Extended Reality Initiative (XRI), School of Teaching, Learning and Curriculum Studies,  
Kent State University

*Sep 2022*

- Lead Professor: Prof. Dr. Karl W. Kosco

## **Awards, Scholarships, Further Competitive Grants**

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### **Kongressreisenprogramm [Congress Travel Program] (€2,259)**

*Bonn, Germany*

DAAD [German Academic Exchange Service]

*2022*

- Federal-level support for active participation of German scientists in international scientific congresses.

### **AERA SIG-IT Best Paper Award (\$350)**

*Virtual*

American Educational Research Association (AERA) Instructional Technology Special  
Interest Group (SIG-IT)

*2021*

- Selected as the best research paper submitted to SIG-IT and accepted for presentation at the AERA 2021 Conference.

### **Study Innovation Prize (€100)**

*Potsdam, Germany*

Faculty of Human Sciences, University of Potsdam

*2020*

- Selected as the top three innovative teaching projects that promote good practice in E-Learning.

### **Potsdam Travel Grant (€1,480)**

*Potsdam, Germany*

Potsdam Graduate School, University of Potsdam

*2019*

- Institute-level support for presentations in scientific events.

### **Rackham Conference Travel Grant (\$800)**

*Ann Arbor, United States*

Rackham Graduate School, University of Michigan

*2015*

- Institute-level support for graduate students in good academic standings for academic conferences.

# Publications

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## Refereed Journal Articles (6)

- Huang, Y.**, Richter, E., Kleickmann, T., & Richter, D. (2023). Comparing video and virtual reality as tools for fostering interest and self-efficacy in classroom management: Results of a pre-registered experiment. *British Journal of Educational Technology*, 54(2), 467--488. <https://doi.org/10.1111/bjet.13254>
- Huang, Y.**, Miller, K. F., Cortina, K. S., & Richter, D. (2023). Teachers' professional vision in action. *Zeitschrift Für Pädagogische Psychologie [German Journal of Educational Psychology]*, 37(1-2), 122--139. <https://doi.org/10.1024/1010-0652/a000313>
- Richter, E., Hußner, I., **Huang, Y.**, Richter, D., & Lazarides, R. (2022). Video-based reflection in teacher education: Comparing virtual reality and real classroom videos. *Computers & Education*, 190, 104601. <https://doi.org/10.1016/j.compedu.2022.104601>
- Huang, Y.**, Richter, E., Kleickmann, T., & Richter, D. (2022). Class size affects preservice teachers' physiological and psychological stress reactions: An experiment in a virtual reality classroom. *Computers & Education*, 184, 104503. <https://doi.org/10.1016/j.compedu.2022.104503>
- Huang, Y.**, Richter, E., Kleickmann, T., Wiepke, A., & Richter, D. (2021). Classroom complexity affects student teachers' behavior in a VR classroom. *Computers & Education*, 163, 104100. <https://doi.org/10.1016/j.compedu.2020.104100>
- Richter, E., Marx, A., **Huang, Y.**, & Richter, D. (2020). Zeiten zum beruflichen Lernen: Eine empirische Untersuchung zum Zeitpunkt und der Dauer von Fortbildungsangeboten für Lehrkräfte [Time for professional learning: an empirical study about timing and duration of teacher training]. *Zeitschrift für Erziehungswissenschaft [Journal of Educational Science]*, 23(1), 145--173. <https://doi.org/10.1007/s11618-019-00924-x>

## Book Chapters and Reports (2)

- Huang, Y.**, Richter, E., Kleickmann, T., & Richter, D. (2022). Virtual reality in teacher education from 2010 to 2020: A review of program implementation, intended outcomes, and effectiveness measures. In K. Scheiter & I. Gogolin (Eds.), *Edition ZfE [Journal of Educational Science Edition] Vol. 15. Bildung für eine digitale Zukunft [Education for a Digital Future]* (1st ed.). Springer VS Wiesbaden. [https://doi.org/10.1007/978-3-658-37895-0\\_16](https://doi.org/10.1007/978-3-658-37895-0_16)
- Cortina, K. S., Miller, K. F., Hua, S., Peist, E., **Huang, Y.**, & Wei, Y. (2013). Behavioral regulation of preschoolers in China and the US: the role of attention. In N. McElvany & H. G. Holtapfels (Eds.), *Empirische Bildungsforschung: Theorien, Methoden, Befunde und Perspektiven [Empirical educational research: theories, methods, findings, and perspectives]* (pp. 125--133). Waxmann Verlag. <https://books.google.com?id=rUAdAAAAQBAJ>

## Other Publications (3)

- Huang, Y.** (2018). *Learning from teacher's eye movement: Expertise, subject matter and video modeling* [Doctoral dissertation, University of Michigan]. <https://doi.org/2027.42/145853>
- Huang, Y.** (2017). *A discussion on data visualization in 21st century education*. Blog of Center for Academic Innovation at University of Michigan. <https://bit.ly/3klgaHy>
- Huang, Y.**, Foley, K., & Jankovic, F. (2017). *A picture is worth a thousand words: Understanding learners through visualization*. Blog of Center for Academic Innovation at University of Michigan. <https://bit.ly/41ghSdR>

## Submitted Manuscripts (2)

- Cortina, K., Richter, D., & **Huang, Y.** (2023). Discussion of the research implications. In A. Gegenfurtner & R. Stahnke (Eds.), *New Perspectives on Teacher Professional Vision*. Routledge. <https://edarxiv.org/ye6uw/>
- Huang, Y.**, Lazarides, R., & Richter, D. (2022). *Teachers' adaptations to COVID-19: Perceived preparedness for distance education, frequency of teacher-student contact, and resources in ICT [Under review]*.

# Presentations

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## Refereed Conference Presentations (13)

- Bardach, L., **Huang, Y.**, Richter, E., Klassen, R. M., Kleickmann, T., & Richter, D. (2023-08-22-2023-08-26/2023-08-22-2023-08-26). *Revisiting effects of teacher characteristics on stress: A virtual reality study*. In R. Klassen (Chair), *Building a better understanding of teachers' well-being* [Symposium]. The European Association for Research on Learning and Instruction (EARLI) 20th Biennial Conference, Thessaloniki, Greece.
- Huang, Y.**, Miller, K. F., Cortina, K. S., & Richter, D. (2019-02-25-2019-02-27/2019-02-25-2019-02-27). *Learning from teacher's eyes: Expertise and eye movements* [Paper presentation]. Gesellschaft für Empirische Bildungsforschung [Society for Empirical Educational Research] (GEBF) 2019 Annual Meeting, Köln, NW, Germany.
- Huang, Y.**, Miller, K. F., Cortina, K. S., & Su, L. (2017-04-06-2017-04-08/2017-04-06-2017-04-08). *Effects of modeling on delay of gratification among Chinese preschoolers: Testing a new method for assessing self-control* [Poster presentation]. Society for Research in Child Development (SRCD) 2017 Biennial Meeting, Austin, TX, United States.
- Huang, Y.**, Richter, E., Kleickmann, T., & Richter, D. (2023-02-28-2023-03-02/2023-02-28-2023-03-02). *Comparing video and virtual reality as tools for fostering interest and self-efficacy in classroom management: Results of a pre-registered experiment*. In R. Junker (Chair), *Evaluation digitaler Lernumgebungen zur Förderung der Klassenführungs-kompetenz bei Lehramtsstudierenden* [Evaluation of digital learning environments to promote classroom management skills in student teachers] [Symposium]. Gesellschaft für Empirische Bildungsforschung [Society for Empirical Educational Research] (GEBF) 2023 Annual Meeting, Essen, NW, Germany.
- Huang, Y.**, Richter, E., Kleickmann, T., & Richter, D. (2020-12-10-2020-12-11/2020-12-10-2020-12-11). *Virtual reality and teacher education: A literature review for the last decade* [Paper presentation]. ZfE-Forum 2020: Bildung für eine digitale Zukunft [Journal of Educational Science Forum 2020: Education for a Digital Future], Hamburg, Germany.
- Huang, Y.**, Richter, E., Kleickmann, T., Richter, D., & Scheiter, K. (2023-08-22-2023-08-26/2023-08-22-2023-08-26). *Uncover teachers' movement patterns in immersive VR: Relevance for visual attention performance*. In V. Hoogerheide (Chair), *A multi-disciplinary perspective on immersive virtual reality learning and instruction* [Symposium]. The European Association for Research on Learning and Instruction (EARLI) 20th Biennial Conference, Thessaloniki, Greece.
- Huang, Y.**, Richter, E., Kleickmann, T., Wiepke, A., & Richter, D. (2021-04-08-2021-04-12/2021-04-08-2021-04-12). *Classroom complexity affects student teachers' behavior in a VR classroom* [Paper presentation]. American Educational Research Association (AERA) 2021 Annual Meeting, Virtual.
- Huang, Y.**, Richter, E., & Richter, D. (2020-04-17-2020-04-21/2020-04-17-2020-04-21). *Presence and efficacy: Training preservice teachers' classroom management skills in virtual reality* [Paper presentation]. American Educational Research Association (AERA) 2020 Annual Meeting, San Francisco, CA, United States (Conference Canceled). <http://tinyurl.com/vqq6flp>
- Huang, Y.**, Su, L., & Miller, K. F. (2015-03-19-2015-03-21/2015-03-19-2015-03-21). *Looking through you: First-person perspective video affects Chinese preschoolers' sex-typed toy choices* [Poster presentation]. Society for Research in Child Development (SRCD) 2015 Biennial Meeting, Philadelphia, PA, United States.
- Park, I., **Huang, Y.**, & Sun, X. (2018-04-13-2018-04-17/2018-04-13-2018-04-17). *Effects of first impressions and instructional quality on student engagement: A continuous evaluation* [Symposium]. American Educational Research Association (AERA) 2018 Annual Meeting, New York, NY, United States.
- Richter, D., Wiepke, A., Richter, E., **Huang, Y.**, & Zender, R. (2019-02-25-2019-02-27/2019-02-25-2019-02-27). *Nutzung von Virtual Reality-Technologie zur Erfassung von Klassenführungs-kompetenzen in der Lehrerbildung* [Using virtual reality technology to assess classroom management skills in teacher education] [Paper presentation]. Gesellschaft für Empirische Bildungsforschung [Society for Empirical Educational Research] (GEBF) 2019 Annual Meeting, Köln, NW, Germany.

Richter, E., Hußner, I., **Huang, Y.**, Richter, D., & Lazarides, R. (2023-02-28-2023-03-02). *Videobasierte Unterrichtsreflexion in der Lehrkräfteausbildung: Virtual Reality und klassische Unterrichtsvideos im Vergleich [Video-based instructional reflection in teacher education: Comparing virtual reality and traditional instructional videos]*. In T. Daltoè & R. Göllner (Chairs), *Unterrichtserleben in Virtual Reality als Chance für die Lehrkräftebildung [Classroom experience in virtual reality as an opportunity for teacher education]* [Symposium]. Gesellschaft für Empirische Bildungsforschung [Society for Empirical Educational Research] (GEBF) 2023 Annual Meeting, Essen, NW, Germany.

Richter, E., Marx, A., **Huang, Y.**, & Richter, D. (2019-02-25-2019-02-27). *Zeiten zum Lernen: Eine empirische Analyse zum Zeitpunkt und der Dauer von Fortbildungsveranstaltungen für Lehrkräfte [Times to learn: An empirical analysis of the timing and duration of professional development events for teachers]* [Paper presentation]. Gesellschaft für Empirische Bildungsforschung [Society for Empirical Educational Research] (GEBF) 2019 Annual Meeting, Köln, NW, Germany.

Wang, Z., & **Huang, Y.** (2013-04-18-2013-04-20). *Attention, self-regulation, and looking at distractions in preschool Chinese children* [Poster presentation]. Society for Research in Child Development (SRCD) 2013 Biennial Meeting, Seattle, WA, United States.

### Invited Talks (9)

**Huang, Y.** (2022, September). *Teach in virtual reality (VR): Understand preservice teachers' behaviors through VR experiments* [Talk]. Combined Program in Education and Psychology Colloquium Series, University of Michigan, Ann Arbor, MI, United States.

**Huang, Y.** (2022, September). *Uncoil preservice teachers' experiences through virtual reality experiments* [Talk]. The Gerald H. Read Center for International and Intercultural Education Guest Talk, Kent State University, Kent, OH, United States.

**Huang, Y.** (2022, June). *Professional vision in virtual reality: Experimental investigations of pre-service teachers' noticing* [Talk]. Research Colloquium of Eye Tracking Working Group in Methods of Empirical Classroom Research, University of Augsburg, Germany. <https://www.uni-augsburg.de/de/fakultaet/philsoz/fakultat/empirische-unterrichtsforschung/forschung/arbeitsgruppe-eye-tracking/>

**Huang, Y.** (2022, March). *Features and applications of the Potsdam virtual reality classroom* [Talk]. Module of Immersive Learning Environments from the Swiss Competence Centre for Innovations in Learning, St.Gallen, Switzerland.

**Huang, Y.** (2021, December). *Classroom features and preservice teachers' behaviors: Experimental investigations in a virtual reality (VR) classroom* [Talk]. Research Colloquium of the Professorships at the Department of Educational Science, University of Potsdam, Potsdam, Germany.

**Huang, Y.** (2018, October). *Learning from teacher's eye movement: Expertise, subject matter and video modeling* [Talk]. Research Colloquium of the Professorships at the Department of Educational Science, University of Potsdam, Potsdam, Germany.

**Huang, Y.** (2017, March). *Effects of modeling on delay of gratification among Chinese preschoolers: Testing a new method for assessing self-control* [Talk]. Combined Program in Education and Psychology Colloquium Series, University of Michigan, Ann Arbor, MI, United States.

**Huang, Y.** (2015, October). *Looking through you: First-person perspective video affects Chinese preschoolers' sex-typed toy choices* [Talk]. Combined Program in Education and Psychology Colloquium Series, University of Michigan, Ann Arbor, MI, United States.

## Teaching Experience

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### Education on the Horizon: Teaching and Learning with Technology

[seminar for Bachelor and Master] Instructor

University of Potsdam

2019–Present

### Enhance Teaching and Learning through the Perspective of Cognitive Psychology

[seminar for Bachelor and Master] Instructor

University of Potsdam

2018–Present

## Understand Schooling through the Lens of Cross-cultural Comparisons

[seminar for Bachelor and Master] Instructor

## Educational Psychology and Human Development

[Undergraduate seminar] Graduate Student Instructor

## Research Methods in Educational and Cross-cultural Contexts

[Undergraduate seminar] Graduate Student Instructor

## Introduction to Psychology

[Undergraduate seminar] Graduate Student Instructor

## Psychology Subject

High School Teacher

University of Potsdam/Kiel

University

2018–Present

University of Michigan

2016

University of Michigan

2015

University of Michigan

2014–2017

Gucheng High School, China

2012

## Supervision of Theses

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### Are Comic Books Suitable for Teaching Second Language?—Example of English in German Secondary Education

University of Potsdam

Bachelor Thesis

Oct 2020

### Aufmerksamkeitsverteilung bei Praxissemesterstudierenden [Distribution of visual attention among teacher trainees]

University of Potsdam

Master Thesis

Jun 2020

## Professional Certification

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### Graduate Teacher Certificate (GTC)

Professional certificate for college-level instructors

University of Michigan

2018

### PEERRS (Program for Education and Evaluation in Responsible Research and Scholarship) Certificate

Certificate for responsible conduct of research

University of Michigan

2018

## Other Professional Activities

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### Data Visualization Specialist

Digital Education & Innovation Lab, The Office of Academic Innovation, University of Michigan

Ann Arbor, MI, United States

2016–2017

- Responsible for managing, mining, analyzing and visualizing big data set for the Massive Open Online Courses provided by University of Michigan.

### Program Leader

Global Course Connection in China, Center for Global and Intercultural Study, University of Michigan

Ann Arbor, MI, United States

2013–2017

- Responsible for leading international comparison studies both in US and China, as well as facilitating the cultural and academic exchange between American and Chinese college students.

### Graphic Designer

Freelance

Virtual

2011–2018

- Graphic designer specialized in scientific illustration and data visualization

## Professional Service

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### Ad-hoc Peer Review

2022–Present: Asia Pacific Education Review

2022–Present: Frontiers in Psychology

2022–Present: Education Sciences

2022–Present: Quality & Quantity

2021–Present: Computers & Education

2021–Present: European Journal of Teacher Education

2022: International Conference on Information Systems(ICIS)

## Institutional Service

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<b>Admissions Committee</b>	<i>University of Michigan</i>
Combined Program in Education and Psychology	<i>2017–2018</i>
<b>Colloquium Planning Committee</b>	<i>University of Michigan</i>
Combined Program in Education and Psychology	<i>2016–2017</i>
<b>Communications Committee</b>	<i>University of Michigan</i>
Combined Program in Education and Psychology	<i>2014</i>
<b>Executive Committee Cohort Representative</b>	<i>University of Michigan</i>
Combined Program in Education and Psychology	<i>2013</i>
<b>Graduate Student Mentor</b>	<i>University of Michigan</i>
The Michigan Association of Psychology Scholars	<i>2013</i>

## Current Memberships

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**American Educational Research Association:** Division C (Learning and Instruction), SIG 119  
(Technology, Instruction, Cognition, and Learning), SIG 052 (Instructional Technology)  
**American Psychological Association:** Division 7 (Developmental Psychology), Division 15  
(Educational Psychology)  
**European Association for Research on Learning and Instruction:** SIG 07  
(Technology-Enhanced Learning And Instruction), SIG 11 (Teaching and Teacher Education)

## Skills

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<b>Data Science</b>	R, Mplus, SPSS, Tableau, Python
<b>Reproducible Report</b>	Markdown, org-babel, LaTeX, Pandoc
<b>Programming Languages</b>	C/C++/C#
<b>Apparatus</b>	SMI Mobile Eye-tracking system, Tobii Eye-tracking system, Pupil Labs Eye-tracking system, HTC VIVE
<b>Quantitative Methods</b>	Hierarchical Linear Modeling, Structural Equation Modeling, Survey Design, Unsupervised/Supervised Machine Learning
<b>Languages</b>	English, Mandarin