

KEXIN QUE

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EDUCATION

Graduate student, Northwestern University

Sept. 2023 — June 2028 (Expected)

Advisor: Dr. Dedre Gentner

BSc (Hons) Psychology, University of Bath

Oct. 2017 — June 2021

Graduated with First-class honors

Thesis project: People Infer Higher Reward from Less Probable Action: The Trade-off Reasoning between Reward and Probability in Action Understanding

Advisor: Dr. Shari Liu, Dr. Richard Joiner

RESEARCH INTERESTS

Analogical Reasoning, Number Learning, Number Syntax, Language and Cognition

FELLOWSHIPS AND AWARDS

Cognitive Science Travel Grants, Northwestern University (\$500)

TGS Conference Travel Grants, Northwestern University (\$450)

TGS First-year Fellowship, Northwestern University (\$36,960)

PUBLICATIONS

Gao, Y., **Que, K.**, Tan, Z., & Christie, S. (in prep). *The Spontaneous Generation of Analogy*.

Srinivasan, A., Topaloglu, S., **Que, K.**, Christie, S., Snedeker, J., & Spelke, E. (in prep). *Children's Understanding of Number Words*.

Gao, Y., **Que, K.**, Tan, Z., Zhang, Y., & Christie, S. (2022). Analogy Use in Parental Explanation. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 44, No. 44).

Gao, Y., **Que, K.**, & Christie, S. (2022). On the Question of Children's Questions. *Early Childhood Development*, 1, 24-35. (in Mandarin)

PRESENTATIONS AND POSTERS

Zhang, Y., **Que, K.**, Levine, S. & Christie, S. (2024). Enjoyment or Effort: Math learning goals and decision making in two cultures. Poster presentation at the Cognitive Development Society Conference, Pasadena.

Srinivasan, A., Topaloglu, S., **Que, K.**, İleri, C., Küntay, A., Christie, S., Snedeker, J., & Spelke, E. Does language shape children's understanding of numerical concepts?. Talk presentation at the 14th annual Budapest CEU Conference on Cognitive Development.

Gao, Y., **Que, K.**, & Christie, S. (2023). Explaining with Spontaneous Analogies. Invited talk at the 20th Biennial EARLI Conference, Thessaloniki, Greece.

Gao, Y., **Que, K.**, Tan, Z., Zhang, Y., & Christie, S. (2022). Analogy Use in Parental Explanation. Talk presented at the 2022 Cognitive Science Society. (online)

Gao, Y., **Que, K.**, Tan, Z., Zhang, Y., & Christie, S. (2022). Analogy Use in Parental Explanation. Talk presented at the Analogical Minds seminar. (online)

RESEARCH EXPERIENCE

Research Assistant, Tsinghua Laboratory of Brain and Intelligence Nov. 2020 — June 2023
PI: Dr. Stella Christie *Tsinghua University*

- Collaborated on cross-cultural and cross-linguistic projects and led the full data collection in China
- Scheduled and conducted more than 300 online experiments on children ages 3 to 8
- Designed experiment stimuli for 3 ongoing research projects using PowerPoint and Qualtrics
- Assisted in developing coding schemes for parental explanations and parent-child conversations
- Organized, visualized and analysed data for various projects using R
- Initiated and co-organized a writing workshop in the Child Cognition Center

Student Intern, Harvard Laboratory for Developmental Studies Aug. 2019 — Sept. 2020
PI: Dr. Elizabeth Spelke *Harvard University*

- Developed thesis project, created stimuli using Keynotes and Qualtrics, collected data from children and adults, assisted data analysis using R, completed pre-registration and achieved first-class grade on the final thesis
- Scheduled and conducted in-lab experiments on children ages 6 to 8
- Designed and created various assessments on children's symbolic and non-symbolic understanding of numbers and geometry
- Coded 50+ infant videos using Datavyu and Boris
- Trained 3+ summer research assistants on recruiting participants and coding infant experiments

Research Assistant, Speech, Language and Neuroscience Group July 2019 — Aug. 2019
PI: Dr. Xing Tian *NYU Shanghai*

- Recruited participants and conducted around 20 experiments on adults
- Conducted literature review on corollary discharge and efference copy in speech production

TEACHING EXPERIENCE

Teaching Assistant March 2024 — June 2024
CogSci211: Learning, Representation, and Reasoning *Northwestern University*

- Instructor: Dr. Dedre Gentner
- Graded class assignments, led review sessions, and gave a lecture on Language and Cognition

Teaching Assistant Jan. 2024 — March 2024
Introduction to Neuroscience *Northwestern University*

- Instructor: Dr. Robin Nusslock
- Graded class assignments and provided writing feedback

Part-time Tutor March 2018 — May 2019
Educate.co *Online*

- Taught IGCSE Physics, A-level Mathematics, and Further Math lessons to high school students

Primary School Teacher

University of Bath's Volunteer Teaching Program

June 2018 — July 2018

DuoLun Second primary school, China

- Taught psychology classes to students from Grade 1 to Grade 5

OTHER EXPERIENCES

- Managed the social media account for the Child Cognition Center at the Tsinghua Laboratory of Brain and Intelligence. Duties involved writing and reviewing blog articles on modern parenting challenges and children's cognitive development, to enhance parents' understanding of child developmental research and effectively bridge theoretical research with practical parenting strategies.
- Produced and translated bilingual storybooks at the Harvard College Children's Society (HCCS) to increase the availability of educational materials for children in Neipu Elementary School.
- Led and organized the University of Bath's volunteer teaching program in Inner Mongolia, China, aimed at providing teaching resources to underprivileged areas.

RESEARCH SKILLS

Designing experiment	PowerPoint, Keynote, Qualtrics, iMovie, and PsychoPy
Coding experiment	Datavyu and Boris
Analyzing data	R, Excel, SPSS, and Excel