Charlotte Cornell
charlotte.cornell [at] rutgers [dot] edu

EDUCATION

Cognitive Psychology (M.S., in progress Ph.D.)   Sept. 2023 – present
Rutgers University – New Brunswick, NJ, USA
Mathematics & Psychology (B.S.), *honors, magna cum laude*   May 2021
Loyola University Chicago – Chicago, IL, USA

HONORS & AWARDS

- Institute of Teaching, Innovation, and Inclusive Pedagogy of Rutgers   Jan. 2025
  University's "You've Been Thanked" Teaching Certificate
- Women of Mathematical Psychology's Professional Representation for   July 2024
  Inclusivity and Minority Empowerment Travel and Networking Award
- Mathematics Departmental Honors   May 2021
- Psychology Departmental Honors   May 2021

RELEVANT EXPERIENCE

Graduate Student, Teaching Assistant,   Sept. 2023 – present
  & Lab Manager   Sept. 2021 – Aug. 2023
Psychology Department, Rutgers University–New Brunswick, USA
- Research constraints of human memory search by reviewing literature, designing and analyzing
  behavioral experiments, building computer models, and writing and presenting results.
- Teach undergraduate laboratory courses on conducting and writing experiments about human cognition.
- Assist professors via holding office hours, grading, and lecturing.
- Manage research participant information, lab accounts, expenses, and protocols.

Research Assistant   Jan. 2020 – Dec. 2022
Psychology Department, Loyola University Chicago, USA
- Assisted in developing model analysis methods by analyzing models of group interaction.
- Researched the effect of participation inequality in groups through computational modelling.
- Researched how sleep health affects memory by reviewing literature and designing experiments.
- Collected and analyzed experimental data, wrote and presented results.

Teaching Assistant   Jan. 2019 – May 2019
Computer Science Department, Loyola University Chicago, USA
- Taught data analysis languages by instructing code tutorials and providing assignment feedback.
- Assisted students with projects by helping them develop goals and data visualizations.

PUBLICATIONS
*shared first-authorship

Journal Articles

Cornell, C.A., & Zhang, Q. (in review). Hierarchical Organization of Context Guides Efficient Memory Search.
[link]

Angne, H., **Cornell, C.A.**, & Zhang, Q. (2024). A context-based model of collaborative inhibition during memory search. *Scientific Reports, 14,* Article 27645. [link]

Cornell, C.A., Norman, K.A., Griffiths, T.L., & Zhang, Q. (2024). Improving memory search through model-based cue selection. *Psychological Science, 35(1),* 55-71. [link]

Larson, J.R., Jr., **Cornell, C.A.,** & Aramovich, N.P. (2024). Building better theories: Prediction intervals as a tool for theory testing and improvement. *Basic and Applied Social Psychology, 46(3),* 146-168. [link]

Book Chapters

Yoon, Y. & **Cornell, C.A.** (in review). Indirect Social Influence Via Shared Environments. To appear in J.R. Larson & C. Coen (Eds.), *Agent-Based Modeling for Research on Groups, Networks, and Organizations*. American Psychological Association.

Conference Proceedings

Cornell, C.A.*¸ Jin, S.*, & Zhang, Q. (2024). The role of episodic memory in storytelling: Comparing large language models with humans. *Proceedings of the 46th Annual Conference of the Cognitive Science Society.* [link]

Angne, H., **Cornell, C.A.**, & Zhang, Q. (2024). Why two heads together are worse than apart: A context-based account of collaborative inhibition in memory. *Proceedings of the 46th Annual Conference of the Cognitive Science Society.* [link]

PRESENTATIONS

*presenting author

Cornell, C.A.* & Zhang, Q. (November 2025). *A hierarchical model of within-list and across-list recall.* Spoken presentation given at the 66th Annual Meeting of the Psychonomics Society, Denver, CO, USA.

Cornell, C.A.* & Zhang, Q. (July 2025). *A unified model of within-list and across-list memory search.* Spoken presentation given at the joint 58th Annual Meeting of the Society for Mathematical Psychology and 23rd International Conference on Cognitive Modeling, Ohio State University, Columbus, Ohio, USA.

Cornell, C.A.* & Zhang, Q. (April 2025). *Improving memory search: A context-based account*. Spoken presentation given at Psychology Department's Cog Fest at Rutgers University, Piscataway, NJ, USA.

Cornell, C.A.* & Zhang, Q. (April 2025). *Modeling cued memory search*. Spoken presentation given at the Psychology Department's Data Blitz at Rutgers University, Piscataway, NJ, USA.

Cornell, C.A.*¸ Jin, S., & Zhang, Q. (November 2024). *The role of episodic memory in storytelling: Comparing large language models with humans.* Poster presentation given at the Satellite Meeting of the Society for Mathematical Psychology at the 65th Meeting of the Psychonomic Society, New York City, New York.

Cornell, C.A.*¸ Jin, S., & Zhang, Q. (July 2024). *The role of episodic memory in storytelling: Comparing large language models with humans.* Poster presentation given at the 46th Annual Conference of the Cognitive Science Society, Rotterdam, the Netherlands.

Angne, H.*, **Cornell, C.A.**, & Zhang, Q. (July 2024). *Why two heads together are worse than apart: A context-based account of collaborative inhibition in memory.* Poster presentation given at the 46th Annual Conference of the Cognitive Science Society, Rotterdam, the Netherlands.

Cornell, C.A.*¸ Jin, S., & Zhang, Q. (July 2024). *The role of episodic memory in storytelling: Comparing large language models with humans.* Spoken presentation given at the joint 57th Annual Meeting of the Society for Mathematical Psychology and 22nd International Conference on Cognitive Modeling, Tilburg University, the Netherlands.

Angne, H.*, **Cornell, C.A.**, & Zhang, Q. (July 2024). *Why two heads together are worse than apart: A context-based account of collaborative inhibition in memory.* Spoken presentation given at the joint 57th Annual Meeting of the Society for Mathematical Psychology and 22nd International Conference on Cognitive Modeling, Tilburg University, the Netherlands.

Cornell, C.A.*, Norman, K.A., Griffiths, T.L., & Zhang, Q. (May 2024). *Improving memory search through model-based cue selection*. Poster presentation given at the 20th Annual Context and Episodic Memory Symposium, Philadelphia, PA, USA.

Cornell, C.A.*, Norman, K.A., Griffiths, T.L., & Zhang, Q. (May 2024). *Improving memory search through model-based cue selection*. Spoken presentation given at the Psychology Department's Cognitive Fest at Rutgers University, Piscataway, NJ, USA.

Cornell, C.A.*, Norman, K.A., Griffiths, T.L., & Zhang, Q. (November 2023). *Improving memory search through model-based cue selection*. Spoken presentation given at the 64th Annual Meeting of the Psychonomics Society, San Francisco, CA, USA.

Cornell, C.A.*, Norman, K.A., Griffiths, T.L., & Zhang, Q. (July 2023). *Improving memory search through model-based cue selection*. Spoken presentation given at the joint 56th Annual Meeting of the Society for Mathematical Psychology and 21st International Conference on Cognitive Modeling at the University of Amsterdam, the Netherlands.

Cornell, C.A.*, & Leach, R.C. (May 2021). *Fatigue, drowsiness, and emotional memory*. Spoken presentation given at the Undergraduate Research & Engagement Symposium at Loyola University Chicago, Chicago, IL, USA.

PROFESSIONAL AFFILIATIONS
2024 -- Member, Cognitive Science Society
2023 -- Member, Psychonomics Society
2023 -- Member, Society for Mathematical Psychology
2023 -- Member, Women of Mathematical Psychology

REFERENCES

- **Qiong Zhang, Ph.D.**
  Graduate Research Advisor
  Assistant Professor
  Psychology & Computer
    Science Departments
  Rutgers University
  qiong.z@rutgers.edu

- **Jim Larson, Ph.D.**
  Undergraduate Research Advisor
  Professor Emeritus
  Psychology Department
  Loyola University Chicago
  jlarson4@luc.edu

- **Larry Jacobs**
  Teaching Mentor
  Adjunct Professor
  Psychology Department
  Rutgers University
  best2u@rutgers.edu