Katerina Christhilf

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EDUCATION

2023	**Masters of Arts, Psychology**	
	Arizona State University, *with Distinction*	
2021	**Bachelor of Science, Cognitive Sciences**	
	University of California, Irvine, *summa cum laude*	
2021	**Bachelor of Arts, Dance**	
	University of California, Irvine, *cum laude*	

WORK EXPERIENCE

2021-Present	**Graduate Research Assistant**
	Department of Psychology, ASU
2022-2023	**Academic Advising Assistant**
	Campuswide Honors Collegium, UCI
Summer 2021	**Modern Dance Instructor**
	Skye Ballet Center
2019-2020	**Peer Academic Advisor**
	Campuswide Honors Collegium, UCI

SKILLS

Languages: Native English, Fluent Russian, Basic French

Programs & Software: Programming and statistics *(Python, R, Javascript/CSS/HTML, SPSS, JASP)*, Research Tools *(G*Power, Qualtrics)*, Natural Language Processing *(TAACO, Coh-Metrix)*, Artificial Intelligence *(ChatGPT, Gemini)*, Design *(Canva)*, General Tools *(Google Drive, Microsoft Office, Slack, Asana)*

Statistical & Methodological Techniques: ANOVA, Regression, Linear Mixed Models, Markov Models, Random Walks, Lag Sequential Analysis, Machine Learning, Natural Language Processing

Other Skills: Holding 15 lbs for extended periods of time, operating under sleep deprivation

FELLOWSHIPS

2020	**Validation of a Novel Matrix Reasoning Task for Mobile Devices**

2020   **Deriving a Valid Measure of Risk Propensity from Real-Life Actions**
2019   **Virtual Reality as a Measure of Risk Assessment**
2018   **Exploring the Relationship between Working Memory, Metamemory and Fluid Intelligence: A Correlational Study**

AWARDS AND HONORS

2024	First Place Winner: ASU AI for Education Hackathon ($5,000 award)
2021	UCI Chancellor's Award for Excellence in Undergraduate Research
2021	UCI Campuswide Honors Sircello Award
2017	UCI Regent's Scholar

PUBLICATIONS

Christhilf, K., Potter, A., Magliano, J. P., McCarthy, K. S., Allen, L. K., & McNamara, D. S. (2025). Constructed responses as a window into strategic processing: The role of prompts in multiple-document reading. *Discourse Processes*, 1–25. https://doi.org/10.1080/0163853X.2025.2578594

Castellana, M. A., Imundo, M., **Christhilf, K.**, Hansen, W., Szeli, É., McNamara, D. S., & Arner, T. (in press). Training undergraduate psychology students in AI-supported scientific writing in a research methods course.

McNamara, D. S., Newton, N. N., **Christhilf, K.,** McCarthy, K., Magliano, J., & Allen, L. (2023). Anchoring your bridge: The importance of paraphrasing to inference making in self-explanations. *Discourse Processes. 60*(4-5), 337-362. https://doi.org/10.1080/0163853X.2023.2225757

Fang, Y., Li, T., Huynh, L. **Christhilf, K.,** Roscoe, R. D., & McNamara, D. S. (2023). Stealth Literacy Assessments via Educational Games. *Computers, 12*(7). https://doi.org/10.3390/computers12070130

BOOK CHAPTERS

Banawan, M., Butterfuss, M., Taylor, K. S., **Christhilf, K.,** Hsu, C., O'Loughlin, C., Taylor, K. S., Allen, L. K., Roscoe, R. D., & McNamara, D. S. (2023). The future of intelligent tutoring systems for writing. *Digital Writing Technologies in Higher Education: Theory, Research, and Practice* (pp. 365-383). Cham: Springer International Publishing.

CONFERENCE PROCEEDINGS

Christhilf, K., Gong, J., & McNamara, D. S. (2024). Context-embedded knowledge tracing and latent concept detection in a reading game. *Proceedings of the Eleventh ACM Conference on Learning @ Scale.* https://doi.org/10.1145/3657604.3664674

Watanabe, M., Imundo, M., **Christhilf, K.,** Arner, T., & McNamara, D. S. (2024). Building reading comprehension and knowledge with iSTART: An ITS to provide formative feedback in reading instruction at scale. *Proceedings of the Eleventh ACM Conference on Learning @ Scale.* https://dl.acm.org/doi/pdf/10.1145/3657604.3664710

Christhilf, K., Roscoe, R., & McNamara, D. S. (2024). Profiles of performance: Game-based assessment of reading comprehension skill. *Proceedings of the 20th International Conference on Intelligent Tutoring Systems.* https://link.springer.com/chapter/10.1007/978-3-031-63031-6_4

Christhilf, K., Newton, N., Butterfuss, R., McCarthy, K. S., Allen, L. K., Magliano, J. P., & McNamara, D. S. (2022). Using Markov models and random walks to examine strategy use of more or less successful comprehenders. In A. Mitrovic and N. Bosch, editors, *Proceedings of the 15th International Conference on Educational Data Mining*, pages 484–491, Durham, United Kingdom, July 2022. International Educational Data Mining Society. https://files.eric.ed.gov/fulltext/ED624145.pdf

CONFERENCE PRESENTATIONS

Christhilf, K., Roscoe, R., & McNamara, D. S. (2024, July). Designing enjoyable reading games: Lessons learned. Oral Presentation at the International Consortium for Innovation and Collaboration in Learning Engineering (ICICLE) 2024 Learning Engineering Conference.

Christhilf, K., Potter, A., McCarthy, K. S., Magliano, J. P., Allen, L. K., & McNamara, D. S. (2024, July). Different paths to quality: How prompts affect readers' constructed responses. Oral Presentation at the Annual Meeting of the Society for Text and Discourse.

Christhilf, K., Watanabe, M., Imundo, M., Arner, T., & McNamara, D. S. (2024, July). Exploring dimensions of knowledge and relations to reading skill and course grades. Poster Presentation at the Annual Meeting of the Society for Text and Discourse.

Imundo, M., Watanabe, M., **Christhilf, K.**, Arner, T., & McNamara, D. S. (2024, July). Evaluating iSTART's effectiveness in enhancing reading comprehension and knowledge acquisition. Oral Presentation at the Annual Meeting of the Society for Text and Discourse.

Watanabe, M., Imundo, M., **Christhilf, K.**, Arner, T., & McNamara, D. S. (2024, July). I can read, but when do iSTART building knowledge? Poster Presentation at the Annual Meeting of the Society for Text and Discourse.

Basheer, S., Higgs, B., Reichert, L., Wu, Z., Potter, A., **Christhilf, K.**, & McNamara, D. S. (2024, May). The effects of prompting on readers' multiple document comprehension. Poster Presentation at the ASU Online Undergraduate Research Scholars (OURS) Symposium.

Christhilf, K., Newton, N. N., & McNamara, D. S. (2023, April). Patterns of strategy use when understanding scientific texts. Poster Presentation at the 2023 American Educational Research Association Annual Meeting.

Huynh, L., Banawan, M. P., **Christhilf, K.,** & McNamara, D. S. (2023, April). Computational analyses of constructed responses reveal levels of comprehension. Poster Presentation at the 2023 American Educational Research Association Annual Meeting.

Newton, N. N., **Christhilf, K.,** McCarthy, K. S., Magliano, J. P., Allen, L. K., & McNamara, D. S. (2023, April). Identifying how comprehension strategy use is affected by instructional prompts, education levels, and text domain. Poster Presentation at the 2023 American Educational Research Association Annual Meeting.

Christhilf, K., Newton, N. N., McCarthy, K. S., Allen, L. K., Magliano, J. P., & McNamara, D. S. (2022, November). Examining profiles of strategy use in self-explanations. Oral Presentation at the 52nd Annual Meeting of the Society for Computation in Psychology.

Newton, N. N., **Christhilf, K.,** McCarthy, K. S., Allen, L. K., Magliano, J. P., & McNamara, D. S. (2022, November). Combinations of comprehension strategy use in constructed responses. Oral Presentation at the 52nd Annual Meeting of the Society for Computation in Psychology.

Butterfuss, R., **Christhilf, K.,** Newton, N., McCarthy, K., Magliano, J., Allen, L., & McNamara, D. (2022, July). Understanding flexible use of comprehension strategies: A cluster approach. Oral Presentation at the 32nd Annual Meeting of the Society for Text and Discourse.

Newton, N. N., **Christhilf, K.,** Butterfuss, R., McCarthy, K., Allen, L., Magliano, J., & McNamara, D. (2022, July). Comprehension strategy use: differences across instructional prompts and education levels. Video Presentation at the 32nd Annual Meeting of the Society for Text and Discourse.

Christhilf, K., Smith, R.N., Sumner, E., Lin, G.C., & Jaeggi, S.M. (2021, May). Examining the validity of existing measures of risk propensity with respect to individual actions during COVID-19. Oral Presentation at the UCI Undergraduate Research Opportunities Program Symposium.

Quagletti, A., **Christhilf, K.,** Hayashi, M., Mester, R., May, D., Smith-Pierce, R. N., Pahor, A., Seitz, A., & Jaeggi, S. M. (2021, May). Validation of a novel matrix reasoning task for

mobile devices. Poster Presentation at the Association for Psychological Science Conference.

Quagletti, A., **Christhilf, K.,** Hayashi, M., Mester, R., May, D., Smith-Pierce, R. N., Pahor, A., Seitz, A., & Jaeggi, S. M. (2021, April). Validation of a novel matrix reasoning task for mobile devices. Poster Presentation at the Western Psychological Association Conference.

Christhilf, K., Smith, R.N., Sumner, E., Lin, G.C., & Jaeggi, S.M. (2020, October). Using virtual reality as a measure of risk propensity. Poster Presentation at the Western Psychological Association Conference.

Smith, R.N., **Christhilf, K.,** Lin, G.C., Moon, A. & Jaeggi, S.M. (2019, May). Exploring the relationship between working memory, metamemory and fluid intelligence. Poster Presentation at the UCI Undergraduate Research Opportunities Program Symposium.

Smith, R.N., **Christhilf, K.,** Lin, G.C., Moon, A. & Jaeggi, S.M. (2019, May). Exploring the relationship between working memory, metamemory and fluid intelligence. Poster Presentation at the UCLA Psychology Undergraduate Research Symposium.

TEACHING

Spring 2024   **Research Methods (Laboratory)**
                     Arizona State University

SERVICE

2024   **Member of Graduate Studies Committee**
                     Psychology Department at ASU
2024   **Secretary**
                     Psychology Graduate Student Association at ASU
2023-2024   **Travel Grant Reviewer**
                     Graduate and Professional Student Association at ASU
2023   **Graduate Student Peer Reviewer**
                     American Educational Research Association
2022-2024   **Mentor to Undergraduate Students**
                     ENERGIZE Psychology Research Initiative at ASU
2021-2023   **Volunteer Crisis Counselor**
                     Crisis Text Line
2017-2021   **Representative ('17-'18), Social Chair ('18-'19), President ('20-'21)**
                     Campuswide Honors Student Council at UCI
2018-2021   **Peer Mentor**
                     Campuswide Honors Collegium at UCI
2019-2021   **Outreach Committee**
                     Bare Bones Dance Theater

PROFESSIONAL AND HONOR SOCIETIES

American Educational Research Association, Association for Computer Machinery, Phi Beta Kappa, Psychonomic Society, Sigma Xi, Society for Text & Discourse