# Charley M. Wu

Curriculum Vitae

# Academic Background

#### Current Position

2020 – Independent Research Group Leader, Human and Machine Cognition Lab, University of present Tübingen, Tübingen, Germany.
Jointly funded by the Excellence Cluster "Machine Learning for Science" and the Tübingen AI center.

#### Previous Positions

- 2019 2020 Post-Doctoral Fellow, Department of Psychology, Harvard University, Cambridge, MA.
  - 2019 **Post-Doctoral Fellow**, *Center for Adaptive Rationality (ARC)*, Max Planck Institute for Human Development, Berlin, Germany.
  - 2018 **Visiting Research Fellow**, Computational Cognitive Neuroscience Lab; hosted by Samuel J. Gershman, Harvard University, Cambridge, MA.
  - 2016-2019 **Pre-Doctoral Fellow**, Center for Adaptive Rationality (ARC) and Center for Adaptive Behavior and Cognition (ABC), Max Planck Institute for Human Development, Berlin, Germany.
  - 2014-2015 **Research Assistant**, Center for Adaptive Behavior and Cognition (ABC), Max Planck Institute for Human Development, Berlin, Germany.
    - 2014 **Student Research Scientist**, *PetaByte Research*, Budapest, Hungary.
  - 2013-2014 **Research Assistant**, *Intelligent Software Agents and New Media Group*, Austrian Institute for Artificial Intelligence (OFAI), Vienna, Austria.
    - 2009 **Research Assistant**, *Center for Human Evolution, Cognition, and Culture (HECC)*, University of British Columbia, Vancouver, Canada.

#### Education

- 2016-2019 **Dr. rer. nat. (Ph.D.) Psychology**, *Humboldt University of Berlin*, Berlin, Germany, *Summa Cum Laude*.
- 2013-2015 M.Sc. Cognitive Science, University of Vienna, Vienna, Austria, with Distinction.
- 2004-2009 B.A. Philosophy, University of British Columbia, Vancouver, Canada, Dean's List.

#### Honors and Awards

2021 **Compositionality in Minds and Machines** (Mini-graduate School), *Innovation Fund Program of the Cluster of Excellence "Machine Learning: New Perspectives for Science"*, University of Tübingen (Co-PI: Martin Butz), ∼ €114k.

- 2021 **Machine Learning for Education** (Mini-graduate School), *Innovation Fund Program of the Cluster of Excellence "Machine Learning: New Perspectives for Science"*, University of Tübingen (Co-PI: Álvaro Tejero-Cantero), ∼ €114k.
- 2019 **Dean's Competitive Fund for Promising Research**, *Harvard University*, Cambridge, MA (written with and awarded to Sam Gershman), \$33,353 (USD).
- 2019 **Glushko and Samuelson Student Travel Grant**, 40th Annual Conference of the Cognitice Science Society, Montreal, QC, \$500 (USD).
- 2016-2019 **Pre-Doctoral Fellowship**, International Max Planck Research School on Adapting Behavior in a Fundamentally Uncertain World, Joint PhD Fellowship in Psychology, Economics, and Law, ∼€100k.
- 2011-2012 **Joseph-Armand Bombardier Canada Graduate Scholarship**, Social Sciences and Humanities Research Council of Canada (SSHRC), Canada, \$17,500 (CAD), Declined.

#### Publications

In Prep

- submitted Ciranka, S., Linde-Domingo, J., Padezhki, I., Wicharz, C.,  $\mathbf{Wu}$ , C. M., & Spitzer, B. (submitted). Asymmetric learning facilitates human inference of transitive relations. bioRxiv. doi:10.1101/2021.04.03.437766
  - Collins, R. N., Mandel, D. R., Karvetski, C. W., **Wu**, C. M., & Nelson, J. D. (submitted). The wisdom of the coherent: improving correspondence with coherence-weighted aggregation. *PsyarXiv*. doi:10.31234/osf.io/fmnty
  - **Wu**, C. M., Vélez, N., & Cushman, F. A. (submitted). Representational exchange in human social learning: Balancing efficiency and flexibility. *PsyArXiv*. doi:10.31234/osf.io/rm52c Peer reviewed
  - 2021 Humaidan, D., Otte, S., Gumbsch, C., Wu, C. M., & Butz, M. V. (2021). Latent event-predictive encodings through counterfactual regularization. In T. Fitch, C. Lamm, H. Leder, & K. Teßmar-Raible (Eds.), Proceedings of the 43rd Annual Conference of the Cognitive Science Society (pp. 1726–1731). Vienna, Austria: Cognitive Science Society. eprint: 2105. 05894
    - Meder, B., **Wu**, C. M., Schulz, E., & Ruggeri, A. (2021). Development of directed and random exploration in children. *Developmental Science*, e13095. doi:10.1111/desc.13095
    - **Wu**, C. M., Ho, M. K., Kahl, B., Leuker, C., Meder, B., & Kurvers, R. H. (2021). Specialization and selective social attention establishes the balance between individual and social learning. In T. Fitch, C. Lamm, H. Leder, & K. Teßmar-Raible (Eds.), *Proceedings of the 43rd Annual Conference of the Cognitive Science Society* (pp. 1921–1927). Vienna, Austria: Cognitive Science Society. doi:10.1101/2021.02.03.429553
    - **Wu**, C. M., Schulz, E., & Gershman, S. J. (2021). Inference and search on graph-structured spaces. *Computational Brain & Behavior*, 125–147. doi:10.1007/s42113-020-00091-x
    - Zuberer, A., Kucyi, A., Yamashita, A., **Wu**, C. M., Walter, M., Valera, E. M., & Esterman, M. (2021). Integration and segregation across large-scale intrinsic brain networks as a marker of sustained attention and task-unrelated thought. *NeuroImage*, *229*, 117610. doi:10.1016/j.neuroimage.2020.117610

- 2020 Brändle, F., **Wu**, C. M., & Schulz, E. (2020). What are we curious about? *Trends in Cognitive Science*. doi:10.1016/j.tics.2020.05.010
  - **Wu**, C. M., Schulz, E., Garvert, M. M., Meder, B., & Schuck, N. W. (2020). Similarities and differences in spatial and non-spatial cognitive maps. *PLOS Computational Biology*, *16*, 1–28. doi:10.1371/journal.pcbi.1008149
- 2019 Analytis, P. P., **Wu**, C. M., & Gelastopoulos, A. (2019). Make-or-break: chasing risky goals or settling for safe rewards? *Cognitive Science*, *43*, e12743. doi:10.1111/cogs.12743
  - Schulz, E., **Wu**, C. M., Ruggeri, A., & Meder, B. (2019). Searching for rewards like a child means less generalization and more directed exploration. *Psychological Science*, 30(11), 1561-1572. doi:10.1177/0956797619863663
  - Tump, A. N., **Wu**, C. M., Bouhlel, I., & Goldstone, R. L. (2019). The evolutionary dynamics of cooperation in collective search. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 883–889). Montreal, QB: Cognitive Science Society. (Joint first authorship.)
  - **Wu**, C. M., Schulz, E., Gerbaulet, K., Pleskac, T. J., & Speekenbrink, M. (2019). Under pressure: The influence of time limits on human exploration. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 1219–1225). Montreal, QB: Cognitive Science Society. (Joint first authorship.)
  - **Wu**, C. M., Schulz, E., & Gershman, S. J. (2019a). Generalization as diffusion: human function learning on graphs. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 3122–3128). Montreal, QB: Cognitive Science Society.
  - **Wu**, C. M., Schulz, E., & Gershman, S. J. (2019b). Searching for rewards in graph-structured spaces. In *Proceedings of the 2019 Conference on Cognitive Computational Neuroscience*. doi:10.32470/CCN.2019.1041-0
- 2018 Bouhlel, I., **Wu**, C. M., Hanaki, N., & Goldstone, R. L. (2018). Sharing is not erring: pseudoreciprocity in collective search. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 156–161). Austin, TX: Cognitive Science Society. (Joint first authorship.)
  - Schulz, E., **Wu**, C. M., Huys, Q. J., Krause, A., & Speekenbrink, M. (2018). Generalization and search in risky environments. *Cognitive Science*, 42, 2592–2620. doi:10.1111/cogs.12695
  - **Wu**, C. M., Schulz, E., Garvert, M. M., Meder, B., & Schuck, N. W. (2018a). Connecting conceptual and spatial search via a model of generalization. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 1183–1188). Austin, TX: Cognitive Science Society.
  - **Wu**, C. M., Schulz, E., Speekenbrink, M., Nelson, J. D., & Meder, B. (2018b). Generalization guides human exploration in vast decision spaces. *Nature Human Behaviour*, 2, 915–924. doi:10.1038/s41562-018-0467-4

- 2017 **Wu**, C. M., Meder, B., Filimon, F., & Nelson, J. D. (2017). Asking better questions: how presentation formats influence information search. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 8,* 1274–1297. doi:doi:10.1037/xlm0000374
  - **Wu**, C. M., Schulz, E., Speekenbrink, M., Nelson, J. D., & Meder, B. (2017). Mapping the unknown: the spatially correlated multi-armed bandit. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1357–1362). Austin, TX: Cognitive Science Society.
- 2016 Barkoczi, D., Analytis, P. P., & **Wu**, C. M. (2016). Collective search on rugged landscapes: a crossenvironmental analysis. In A. Papafragou, D. Grodner, D. Mirman, & J. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society* (pp. 918–923). Austin, TX: Cognitive Science Society.

# Invited Talks

- Apr. 2021 Exploration and Generalization Over the Lifespan, The Development of Risk Preferences and Exploration Strategies in Human Children and Chimpanzees Symposium, Society for Research on Child Development, Online
- Mar. 2021 Generalization guided exploration in spatial, abstract, and structured domains, Generalization Symposium, Conference of Experimental Psychologists (TeaP), Online
- Dec. 2020 Generalization guided exploration, Computational Cognitive Science Colloquium, TU Darmstadt, Online
- Aug. 2020 Learning in vast and social environments, Social and Cognitive Computational Neuroscience Lab, Boston College, Online
- Jul. 2020 Bridging the Gap Between Human and Machine Learning, Causality in Cognition Lab Stanford University, Online
- Jul. 2020 Bridging Human and Machine Learning, Machine Learning in Science Symposium, University of Tübingen, Online
- Feb. 2020 The Computational Principles of Efficient Human Exploration, University of California, Irvine Irvine, CA.
- Feb. 2020 *Principles of Human Exploration and Generalization*, Max Planck Institute for Biological Cybernetics Tübingen, Germany.
- Feb. 2020 The Foundations of Efficient Human Exploration, University of Konstanz Konstanz, Germany.
- Jan. 2020 *Cognitive Mechanisms of Social Learning,* iSearch Retreat, Schloss Ringberg. Kreuth, Germany.
- Nov. 2019 *Domain General Principles of Efficient Human Exploration*, SimTech Colloquium, University of Stuttgart. Stuttgart, Germany.
- Nov. 2019 Domain General Principles of Generalization and Exploration, Cognitive Brain and Behavior Lunch, Harvard University. Cambridge, MA.
- May. 2019 Navigating Vast Decision Spaces with the Principle of Generalization, Machine Learning in Cognition at UCL (MLCog-UCL) Academic Society, University College London, UK.
- Jan. 2019 *Collective Search in Immersive Virtual Environments*, MPRG: iSearch Retreat, Schloss Ringberg. Kreuth, Germany.

- Jan. 2019 The Successor Representation, MPRG: NeuroCode, Max Planck Institute for Human Development. Berlin, Germany.
- Nov. 2018 *Guiding Exploration Through Generalization*, Cog Lunch, Department of Brain and Cognitive Sciences, MIT. Cambridge, MA.
- Nov. 2018 Generalization in Vast Spaces, Concats, New York University. New York City, NY.
- Nov. 2018 Generalization Guides Exploration in Vast Spaces, Fiery Cushman and Joshua Greene labs, Harvard University. Cambridge, MA.
- Sept. 2018 Guiding Exploration Through Generalization, Samuel Gershman Lab, Harvard University. Cambridge, MA.
- May. 2018 Generalization and Exploration: Insights from a spatial search task, Department of Psychiatry and Psychotherapy, Charité Universitätsmedizin. Berlin, Germany.
- Sept. 2017 Generalization and Exploration in Vast Spaces, Centre for Mind/Brain Sciences (CIMeC), University of Trento. Trento, Italy.
- May. 2017 Active Learning and Search in Unexplored Environments, MPRGL iSearch lab meeting, Max Planck Institute for Human Development. Berlin, Germany.
- Apr. 2017 Generalization Across Vast State Spaces: Human Exploration in Unknown Environments, Cognition Lab, University of Zürich, Zürich, Switzerland.
- Mar. 2017 Terra Incognito: Adaptive Learning and Information Search in Unknown Environments, The Center for Adaptive Rationality (ARC), Max Planck Institute for Human Development. Berlin, Germany.
- Feb. 2017 Adaptive Learning for Language Education, Babbel, Lesson Nine GmbH. Berlin, Germany.
- Nov. 2016 Mapping the Unknown: Human Spatial Exploration-Exploitation, Learning & Decision Making Lab, University College London, UK.

## Conference Presentations, Workshops, and Seminars

- Jul. 2021 Wu, C.M., Ho, M. K., Kahl, B., Leuker, C., Meder, B., & Kurvers, R. H, Specialization and selective social attention establishes the balance between individual and social learning, Poster presented at CogSci 2021, Vienna, AT. [Poster].
- Jul. 2020 **Wu, C.M.,** Vélez, N., Ho, M.k., & Goldstone, R.L., *Cognition, Collectives, and Human Culture.*, Workshop organized for CogSCi 2020, Toronto, CA. [Website with viewable talks].
- Sep. 2019 **Wu, C.M.,** Schulz, E., & Gershman, S.J., Searching for rewards in graph-structured spaces, Poster presented at CCN 2019, Berlin, DE. [Poster].
- Jul. 2019 **Wu, C.M.,** Schulz, E., & Gershman, S.J., *Generalization as diffusion: human function learning on graphs*, Poster presented at CogSci 2019, Montreal, QB. [Poster].
- Jul. 2019 Wu, C.M., Schulz, E., Gerbaulet, K., Pleskac, T.J., & Speekenbrink, M., Under pressure: the influence of time limits on human exploration, Talk presented at CogSci 2019, Montreal, QB.
- Jul. 2019 Tump, A.N., Wu, C.M., Bouhlel, I., & Goldstone, R.L., *The Evolutionary Dynamics of Cooperation in Collective Search*, Talk presented at CogSci 2019, Montreal, QB.
- Jul. 2019 Wu, C.M., Schulz, E., Gerbaulet, K., Pleskac, T.J., & Speekenbrink, M., Time pressure influences attitudes towards uncertainty, Talk presented at MathPsych 2019, Montreal, QB. [Slides].
- Dec. 2018 **Wu, C.M.**, *Inference over graph structures using a diffusion kernel*, Berlin Machine Learning Seminar, Berlin, Germany.

- Jul. 2018 **Wu, C.M.,** Schulz, E., Garvert, M.M., Meder, B., & Schuck, N.W., *Connecting conceptual and spatial search*, Talk presented at CogSci 2018, Madison, WI.
- Jul. 2018 Bouhlel, I., **Wu, C.M.,** Hanaki, N., & Goldstone, R.L., *Sharing is not erring: Pseudo-reciprocal sharing in collective search*, Talk presented at CogSci 2018, Madison, WI.
- Jul. 2018 Wu, C.M., & Meder, B., Nelson, J.D., Navigating uncertainty through information search, Poster presented at CogSci 2018, Madison, WI. [Poster].
- Jul. 2018 **Wu, C.M.,** Schulz, E., Speekenbrink, M., Nelson, J.D., & Meder, B., *Guiding exploration through generalization*, Talk presented at MathPsych 2018, Madison, WI.
- Mar. 2017 **Wu, C.M.,** Schulz, E., Speekenbrink, M., Nelson, J.D., & Meder, B., *Mapping the Unknown: The spatially correlated multi-armed bandit.*, Talk presented at CogSci 2017, London, UK.
- Mar. 2017 **Wu, C.M.,** Schulz, E., Speekenbrink, M., Nelson, J.D., & Meder, B., *Mapping the Unknown: Model-based and Model-free Approaches Towards Spatial Reinforcement Learning*, Talk presented at TeaP 2017, Dresden, Germany.
- Mar. 2017 **Wu, C.M.**, Everybody GANs Now: Tutorial on Generative Adversarial Networks, Berlin Machine Learning Seminar, Berlin, Germany.
- Mar. 2017 **Wu, C.M.**, *Adversarial Training: Math and Methods Tutorial*, Center for Adaptive Behavior and Cognition (ABC), Berlin, Germany.
- Aug. 2016 **Wu, C.M.,** Jurányi, Z., Gulyas, L., & Kampis, G., *Blindfolded NLP: Unsupervised Learning for Automatically Generating Topic Labels*, Identification, Location and Temporal Evolution of Topics Workshop, Budapest, Hungary.
- Jul. 2016 Wu, C.M., Schulz, E., Speekenbrink, M., Nelson, J.D., & Meder, B., Exploring the Unknown: Modeling Human Exploration-Exploitation Behavior, Poster presented at Computational and Mathematical Modeling of Cognition, Dobbiaco, Italy. [Poster].
- Mar. 2016 **Wu, C.M.**, Gaussian Process Models: What do you do when you can't optimize?, Berlin Machine Learning Seminar, Berlin, Germany.
- Aug. 2015 **Wu, C.M.,** Meder, B., Nelson, J.D., & Filimon, F., *The effect of presentation formats on rational information search*, Talk presented at SPUDM 25, Budapest, Hungary.
- Jun. 2015 **Wu, C.M.,** Meder, B., Filimon, F., & Nelson, J.D., *The medium is the message: How presentation formats help people ask better questions*, Talk presented at MEi: CogSci Conference, Ljubljana, Slovenia.
- Feb. 2015 Meder, B., **Wu, C.M.,** Nelson, J. D., & Filimon, F., *Presentation formats and information search*, Workshop on "Information, search, and causes: Rational and cognitive approaches", Turin, Italy.
- Jun. 2014 Wu, C.M., Skowron, M., & Petta, P., Reading between the lines: a vector space model of language using semantic role structures, Poster presented at MEi:CogSci Conference 2014, Kraków, Poland. [Poster].

## Teaching

- 2021 **Generalization in Reinforcement Learning**, *Guest lecture: Introduction to Cognitive Psychology*, University of Ghent, Ghent, Belgium (via Zoom) [Slides].
- 2020 **Scientific Thinking: the Art of Communicating Ideas**, "Becoming a good scientist" workshop, Max Planck Institute for Biological Cybernetics, Tübingen, Germany (via Zoom).

- 2020 **Computational Modeling**, *Graduate student workshop*, Max Planck Institute for Biological Cybernetics, Tübingen, Germany (via Zoom).
- 2019-2020 **Representation Learning in Reinforcement Learning Seminar**, *Co-organizer and regular Speaker*, Harvard University, Center for Brain Science, Cambridge, MA. [Notes].
- 2015-2019 Berlin Machine Learning Seminar, Regular Speaker, Berlin, Germany.
  - 2018 **Introduction to Computational Modeling**, *Graduate and undergraduate workshop*, MPRG: iSearch Research Retreat, Bensdorf, Germany.
  - 2018 **Intro to Cognitive Modeling**, *Course*, Max Planck Institute for Human Development, Berlin, Germany. (Teaching Assistant to Dr. Björn Meder).
  - 2017 **Fast-and-frugal Trees and Models of Information Search**, *Workshop*, ABC Research Retreat, Schloss Ringberg, Germany.
  - 2017 **Computational Models of Cognition**, *Graduate Lecture*, Berlin School of Mind and Brain (PhD Program), Humboldt University, Berlin, Germany.
- 2016-2017 **Math and Methods Tutorial Series**, *Organizer and regular speaker*, Center for Adaptive Behavior and Cognition (ABC), Berlin, Germany.
  - 2016 **A Statistical Framework for Model Comparisons**, *Tutorial*, ABC Research Retreat, Gut Gremmelin, Germany.

# Supervision

## Theses Supervised

**Anna Giron**. Department of Cognitive Science, University of Tübingen. Masters Thesis: *The Trajectory of Learning and Exploration Over the Lifespan* (2020-2021)

**Theresa Horn**. Department of Cognitive Science, University of Tübingen. Bachelors Thesis: *Visual attention in social learning* (2021-Present)

**Kimberly Gerbaulet.** Institute of Cognitive Science, University of Osnabrück. Masters Thesis: *Under pressure: the effect of time pressure on directed and random exploration.* (2018-2019)

#### Graduate Student Projects

**Sebastian Breit**. *Memory-related changes in exploration and generalization over the lifespan*. Department of Cognitive Science, University of Tübingen (2021-Present)

**Tobias Ludwig**. *Planning and generalization on generative graph-structured bandits*. Graduate Training Center for Neuroscience, University of Tübingen (2020-Present)

**Susanne Haridi**. The scalability of human inference. Max Planck School of Cognition (2020-Present) **Franziska Brändle**. A computational theory of fun. Max Planck Institute for Biological Cybernetics (2020-Present)

**Tobias Ludwig**. *Planning and decision-making in generative bandit tasks*. Graduate Training Center for Neuroscience, University of Tübingen. (2020-Present)

**Imen Bouhlel**. Sharing is not erring: How environments can encourage pseudo-reciprocity in collective human search. Department of Economics, Université de Nice. (2016-2019)

**Alan Novaes Tump**. The evolutionary dynamics of cooperation in collective search. Center for Adaptive Rationality, Max Planck Institute for Human Development. (2018-2020)

**Kimberly Gerbaulet**. The informational bandit: Learning to navigate uncertainty. Institute of Cognitive Science, University of Osnabrück. (2018-2019)

**Ahmad Dawud**. *Collective search and rugged landscapes*. Institute of Cognitive Science, University of Osnabrück. (2017-2019)

**Alexander Djamali**. *Information search: Finding better questions*. Department of Physics, Ludwig Maximilian University of Munich. (2016-2017)

## Undergraduate Student Projects

**Grace Deng**. Cumulative cultural evolution drives the rise and decline of virtual online communities. Brown University (2020-2021)

## Professional Service

**Steering Committee Member** of the Cluster of Excellence – Machine Learning for Science, University of Tübingen (2021-Present)

**Organizer** of Cognition, Collectives, and Human Culture Workshop (part of CogSci 2020), Toronto, Canada (2020)

**Organizer** of the 17th annual Summer Institute on Bounded Rationality, Berlin, Germany (2018) **PhD Representative** for the Max Planck Institute for Human Development (2017-2018)

**Ad-hoc Reviewer** for Nature Communications (1), Nature Human Behaviour (1), Scientific Reports (1), Cognition (2), Cognitive Psychology (2), Computational Brain and Behavior (1), Journal of Experimental Psychology: Learning, Memory, and Cognition (1), Cognitive Science (1), Cognitive Computational Neuroscience (6), Cognitive Science Society (19), Mind & Society (1), and Futures & Foresight Science (1)

## Technical Skills

**Programming Languages:** R, Python, Matlab, Julia, JavaScript, HTML, jQuery, PHP, CSS, and LATEX.

**Additional Software Skills:** MongoDB, MySQL, Tensorflow, SKlearn, GenSim, NLTK, Redis, and Adobe Creative Suite.

**Languages:** English (Native), German (B2), Chinese (Mandarin/Shanghainese; mother tongue), French (B1), Spanish (B1), and Russian (A1)

## References

Prof. Dr. Fiery Cushman
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