

Lilly Roth

Contact information

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Open Science <https://osf.io/y2xt7/>
Framework

Academic education and career

2024 University of Chicago, USA: 6-months lab visit in Susan C. Levine's
Cognitive Development Lab

since 2021 University of Tübingen, Germany: PhD in Psychology

2020 – 2021 University of Tübingen, Germany: M.Sc. in Psychology

2016 – 2020 University of Tübingen, Germany: B.Sc. in Psychology

2012 – 2013 Lycée de la Méditerranée in La Ciotat, France: year abroad

2007 – 2015 Hebel-Gymnasium in Schwetzingen, Germany: Abitur

Professional experience and volunteering

since 2021 Volunteering as dancing instructor for kids and adolescents at the Spiel-
und Sportclub Tübingen

2019 – 2020 Internship at psychiatry “Hospital Nacional en Red Especializado en Salud
Mental y Adicciones” in Buenos Aires, Argentina

2017 – 2018 Student research assistant at Leibniz-Institut für Wissensmedien,
Tübingen, Germany

2016 Volunteering: school for disabled students in Santiago, Chile

2016 Volunteering: private German and maths classes for refugee children

2015 – 2016 Volunteering: orphanage and school in Antananarivo, Madagascar

2015 Logistics Center of Decathlon in Schwetzingen, Germany

Computer and language skills

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| Computer | Statistical computing language R (advanced) Document formatting software LaTeX (basic) Microsoft Office (advanced) |
| Language | German (fluent) English (fluent) French (fluent) Spanish (advanced/fluent) Arabic (basic) |

Teaching experience

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| Winter 2023/24 | Supervision of Master student research project: <i>Intra-individual stability of cognitive phenomena</i> |
| Summer 2022 | Master seminar: <i>Internet-based research</i> (together with Prof. Dr. Hans-Christoph Nuerk and Prof. Dr. Ulf-Dietrich Reips) Supervision of Master student research project: <i>Automaticity of the SNARC effect</i> |
| Winter 2021/22 | Supervision of Master student research project: <i>Intra-individual stability of the SNARC effect</i> Supervision of Master student research project: <i>Task dependency of the SNARC effect</i> |
| 2018 – 2021 | Statistics tutor for B.Sc. students at Institute of Psychology at Eberhard-Karls-University Tübingen, Germany |

Talks and conference contributions

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| PLANNED: June 2024 | Roth, L., Overlander, A. T., Caffier, J., Reips, U.-D., Nuerk, H.-C., & Cipora, K. (2024, June 27). <i>One and Only SNARC? Spatial-Numerical Associations are partly flexible, relying on both absolute and relative magnitude</i> . [symposium talk]. MCLS 2024, Washington DC, USA. https://www.the-mcls.org/conferences/mcls-2024-washington-dc |
| April 2024 | Cipora, K., van Dijck, J.-P., & Roth, L., (2024, April 10-12). <i>Time after time: what can we learn about cognitive phenomena by looking into their temporal stability with the Ironman paradigm?</i> [workshop session]. Workshop "Relations between space, language, and numbers", Tübingen, Germany. https://uni-tuebingen.de/de/256925 |
| June 2023 | Roth, L., Caffier, J., Reips, U.-D., Cipora, K., & Nuerk, H.-C. (2023, June 6-8). <i>True colors SNARCing: Automaticity of the SNARC effect observed in color judgment tasks</i> [symposium talk]. MCLS 2023, Loughborough, UK. https://www.the-mcls.org/mcls-2023 |

- October 2022 Roth, L., Knödler, V., Schwarz, S., Van Dijck, J.-P., Willmes, K., Nuerk, H.-C., & Cipora, K. (2022, October 19). *The Ironman SNARC: Intra-individual stability of (numerical) cognition phenomena* [invited talk]. Seminar of the Department of Mathematics Education, Loughborough University, UK. <https://www.lboro.ac.uk/departments/maths-education/>
- June 2022 Roth, L., Knödler, V., Schwarz, S., Van Dijck, J.-P., Willmes, K., Nuerk, H.-C., & Cipora, K. (2022, June 1-3). *The Ironman SNARC: Intra-individual Stability of the SNARC Effect* [symposium talk]. MCLS 2022, Antwerp, Belgium. <https://www.the-mcls.org/conferences/mcls-2022>
- Roth, L., Caffier, J., Reips, U.-D., Nuerk, H.-C., & Cipora, K. (2022, June 1-3). *How Flexible are Spatial-Numerical Associations? A Registered Replication Report* [poster session]. MCLS 2022, Antwerp, Belgium. <https://www.the-mcls.org/conferences/mcls-2022>

Peer-reviewed publications

- 2024 Roth, L., Jordan, V., Schwarz, S., Willmes, K., Nuerk, H.-C., van Dijck, J.-P., & Cipora, K. (2024). Don't SNARC me now! Intraindividual variability of cognitive phenomena – Insights from the Ironman paradigm. *Cognition*, 248, 105781. <https://doi.org/10.1016/j.cognition.2024.105781>

Preprints

- 2024 Roth, L., Caffier, J., Reips, U.-D., Nuerk, H.-C., Overlander, A. T., & Cipora, K. (2024, June). *One and only SNARC? Spatial-Numerical Associations are not fully flexible and depend on both relative and absolute number magnitude* [Stage-2 Registered Report submitted to PCI]. <https://osf.io/79zsy/>
- 2024 Roth, L., Huber, J., Kronenthaler, S., van Dijck, J., Cipora, K., Butz, M. V., & Nuerk, H.-C. (2024, June). *Smells like SNARC spirit: Coexistence of short- and long-term associations between letters and space* [submitted in 2024]. <https://doi.org/10.31234/osf.io/y7hzv>
- 2024 Roth, L., Cipora, K., Overlander, A. T., Nuerk, H.-C., & Ulf-Dietrich, R. (2024, May). *Shape of SNARC: How task-dependent are Spatial-Numerical Associations? A highly powered online experiment* [preprint of Stage-1 Registered Report, submitted in 2024]. <https://osf.io/4wpv6/>
- 2024 Roth, L., Nuerk, H.-C., Cramer, F., & Daroczy, G. (2024, April). *Can't help processing numbers with text: Eye-tracking evidence for simultaneous instead of sequential processing of text and numbers in arithmetic word problems* [submitted in 2024]. <https://doi.org/10.31234/osf.io/3uvt8>
- 2024 Roth, L., Caffier, J., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (2024, April). *True colors SNARCing: Automaticity of the SNARC effect – evidence from color judgment tasks* [submitted in 2024]. <https://osf.io/preprints/psyarxiv/aeyn8>
- 2023 Roth, L., Caffier, J., Reips, U.-D., Nuerk, H.-C., & Cipora, K. (2023, December). *One and only SNARC? A Registered Report on the SNARC effect's range dependency* [in-principle acceptance of Stage-1 Registered Report by PCI in 2023]. <https://doi.org/10.17605/OSF.IO/Z43PM>

Preregistrations

- 2023 Albu, E., Roth, L., Cipora, K., & Nuerk, H.-C. (2023, October 20). *Examining SNARC-like effects for continuous magnitudes*. <https://doi.org/10.17605/OSF.IO/3TCEU>
- Cipora, K., Roth, L., Rossi, S., Gilmore, C., & Inglis, M. (2023, October 17). *Time after time - the Ironman follow-up*. <https://doi.org/10.17605/OSF.IO/74MUE>
- Bulut, M., Roth, M., Bahreini, N., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (2023, April 11). *Cultural aspects of the mental number line beyond reading/writing direction*. <https://doi.org/10.17605/OSF.IO/PG5TN>
- 2022 Roth, L., Caffier, J., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (2022, May 31). *SNARC automaticity: Color intensity judgment (light cyan vs. dark cyan)*. <https://doi.org/10.17605/OSF.IO/VBA7N>
- Roth, L., Caffier, J., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (2022, March 10). *SNARC automaticity: Categorical color judgment (blue vs. yellow)*. <https://doi.org/10.17605/OSF.IO/F2GB8>
- Roth, L., Knödler, V., Schwarz, S., Van Dijck, J.-P., Willmes, K., Nuerk, H.-C., & Cipora, K. (2022, January 26). *The Ironman SNARC: Intra-individual stability of the SNARC effect*. <https://doi.org/10.17605/OSF.IO/P6U5H>

Fundings and scholarships

- 2024 Fundings (4,966 euros) by the Excellence Strategy for the interdisciplinary Workshop “Space, Language, and Numbers” at University of Tübingen
- 2019 – 2020 PROMOS (Program to increase the mobility of German university students) scholarship by the DAAD (German Academic Exchange Service) for internship in Buenos Aires, Argentina

Academic involvement

- 2024 Main organizer Workshop at University of Tübingen “Relations between space, language, and numbers” (2024, April 10-12). <https://uni-tuebingen.de/de/256925>
- 2022 – 2024 Elected “Diversity, Equity, and Inclusion chair” on the Trainee Board of the Mathematical Cognition and Learning Society. <https://mclstrainee.weebly.com/trainee-board.html>
- 2022 Co-organizer Workshop at University of Tübingen “Promoting transparency and replicability in research” (2022, September 19-22). <https://uni-tuebingen.de/de/234953>