

# Lilly Roth

## Contact information

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## 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: one school year abroad
2007 – 2015	Hebel-Gymnasium in Schwetzingen, Germany: high-school degree 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	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

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

## Teaching experience

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

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. <a href="https://www.the-mcls.org/conferences/mcls-2024-washington-dc">https://www.the-mcls.org/conferences/mcls-2024-washington-dc</a>
April 2024	Cipora, K., van Dijck, J.-P., & Roth, L., (2024, April 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. <a href="https://uni-tuebingen.de/de/256925">https://uni-tuebingen.de/de/256925</a>
June 2023	Roth, L., Caffier, J., Reips, U.-D., Cipora, K., & Nuerk, H.-C. (2023, June 8). <i>True colors SNARCing: Automaticity of the SNARC effect observed in color judgment tasks</i> [symposium talk]. MCLS 2023, Loughborough, UK. <a href="https://www.the-mcls.org/mcls-2023">https://www.the-mcls.org/mcls-2023</a>
October 2022	Roth, L., Knödler, V., Schwarz, S., Van Dijck, J.-P., Willmes, K., Nuerk, H.-C., & Cipora, K. (2022, October 19). <i>The Ironman SNARC: Intra-individual stability of (numerical) cognition phenomena</i> [invited talk].

- June 2022 Roth, L., Knödler, V., Schwarz, S., Van Dijck, J.-P., Willmes, K., Nuerk, H.-C., & Cipora, K. (2022, June 1). *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). *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 (in press) Bulut, M., Roth, L., Bahreini, N., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (in press). One direction? Cultural aspects of the mental number line beyond reading direction. *Psychological Research*. Preprint at: <https://doi.org/10.31234/osf.io/qcb6m>
- 2024 (in press) Roth, L., Caffier, J., Cipora, K., Reips, U.-D., & Nuerk, H.-C. (in press). True colors SNARCing: Semantic number processing is highly automatic. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Preprint at: <https://doi.org/10.31234/osf.io/aeyn8>
- 2024 (in press) Roth, L., Caffier, J., Reips, U.-D., Nuerk, H.-C., Overlander, A. T., & Cipora, K. (in press). One and only SNARC? Spatial-Numerical Associations are not fully flexible and depend on both relative and absolute number magnitude. *Royal Society Open Science*. Preprint at: <https://osf.io/79zsy/>
- 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 submitted for publication

- 2024 Roth, L., Huber, J., Kronenthaler, S., van Dijck, J., Cipora, K., Butz, M. V., & Nuerk, H.-C. (2024). *Looks like SNARC spirit: Coexistence of short- and long-term associations between letters and space* [submitted in 2024]. PsyArXiv. <https://doi.org/10.31234/osf.io/y7hzv>
- 2024 Roth, L., Nuerk, H.-C., Cramer, F., & Daroczy, G. (2024). *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]. PsyArXiv. <https://doi.org/10.31234/osf.io/3uvt8>

## Preregistrations / Registered Reports for running projects

- 2024 Roth, L., Cipora, K., Overlander, A. T., Nuerk, H.-C., & Reips, U.-D. (2024). *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/>
- 2023 Albu, E., Roth, L., Cipora, K., & Nuerk, H.-C. (2023, October 20). *Examining SNARC-like effects for continuous magnitudes* [preregistration]. Open Science Framework. <https://doi.org/10.17605/OSF.IO/3TCEU>
- 2023 Cipora, K., Roth, L., Rossi, S., Gilmore, C., & Inglis, M. (2023, October 17). *Time after time - the Ironman follow-up* [preregistration]. Open Science Framework. <https://doi.org/10.17605/OSF.IO/74MUE>

## Received fundings and scholarships

- 2024 Fundings (4,966 euros) by the Excellence Strategy (Federal Ministry of Education and Research, and Ministry of Science, Research, and Arts of Baden-Württemberg) 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 of the “Relations between space, language, and numbers” workshop at University of Tübingen (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 of the “Promoting transparency and replicability in research” workshop at University of Tübingen (2022, September 19-22). <https://uni-tuebingen.de/de/234953>