

Curriculum vitae - Hannah Lönneker

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Education

since 10/2023 **Psychotherapist in training**, *AVM e. V.*, Göttingen

since 09/2019 **PhD student**, *Diagnostics and Cognitive Neuropsychology*, Tübingen

10/2017 - 05/2019 **M.Sc.** in Psychology, University of Tübingen
Master thesis *Hertie Institute for Clinical Brain Research*, Tübingen:
„Mild Activity of Daily Living Impairment as a Risk Factor for Cognitive Decline in Parkinson’s Disease: Follow-up Assessment of the Erlangen Test of Activities of Daily Living in Persons with Mild Dementia or Mild Cognitive Impairment“ (Prof. Dr. Hautzinger, PD Dr. Liepelt-Scarfone)

09/2016 - 02/2017 **Erasmus semester**, Universidad de Granada (Spain)

10/2013 - 09/2017 **B.Sc.** in Psychology, University of Tübingen
Bachelor thesis *Diagnostics and Cognitive Neuropsychology*, Tübingen:
„Linguistic influences on numerical cognition: How do grammatical factors interact with the SNARC effect in English?“ (Prof. Dr. Nürk, Dr. Cipora, Dr. Soltanlou)

08/2004 - 06/2012 **Abitur**, unesco project school Hainberg Gymnasium, Göttingen

Academic and clinical experience

01/2024 - 06/2025 Psychologist, *Clinic for Psychiatry & Psychosomatics, Elbe Kliniken*, Stade

07/2019 - 12/2023 Doctoral Researcher, *Diagnostics and Cognitive Neuropsychology*, Tübingen

10/2018 - 06/2019 Tutor for diagnostic and report writing, Tübingen

05/2018 - 07/2018 Research intern, *Charité: Clinic for Anesthesia*, Berlin

03/2018 - 04/2018 Clinical intern, *Day clinic for Psychosomatics*, Tübingen

10/2017 - 06/2019 Clinical assistant, *Out-patient child & adolescent psychotherapy Pflüger*

08/2017 - 09/2017 Research intern, *German Primate Center*, Göttingen

03/2017 - 03/2019 Research assistant, *Clinic for Psychosomatics*, Tübingen

02/2016 - 04/2016 Clinical intern, *Schmieder Clinic for Neurological Rehabilitation*, Gerlingen

05/2015 - 08/2016 Research assistant, *Diagnostics and Cognitive Neuropsychology*, Tübingen

Teaching experience

Winter 2023/24 Seminar *Diagnostics of performance and anxiety*

Summer 2023 Seminar *Intra-/interindividual differences and replication*

Winter 2022/23 Seminar *Giftedness diagnostics and neuropsychological diagnostics*

Winter 2021/22 Seminar *Neuropsychology and aging*

Summer 2020 Practical seminar *The mental number line*

Winter 2019/20 Seminar *Diagnostics of dyscalculia*
Seminar *Teaching and learning numeracy in early childhood*

Summer 2019 Practical seminar *Diagnostics of performance and personality in children*

Funding and associations

June 2023	Conference allowance, SIPS2023 (Italy), 440€, <i>Friedrich-Ebert-Stiftung</i>
June 2023	Conference allowance, MCLS2023 (UK), 545€, <i>Friedrich-Ebert-Stiftung</i>
19/ - 22/09/2023	Workshop funding over 4981€, <i>Excellence Initiative Tübingen</i>
June 2022	Conference allowance, MCLS2022 (Belgium), 600€, <i>Friedrich-Ebert-Stiftung</i>
03/2022 - 12/2023	”Partnership Engage Grant“, \$24,923, <i>University of Western Ontario</i>
02/2021 - 01/2022	Research grant over 3853.50€, <i>Wilhelm Schuler-Stiftung</i>
10/2020 - 09/2023	Dissertation stipend, <i>Friedrich-Ebert-Stiftung</i>
04/2020 - 09/2020	Dissertation stipend, <i>Landesgraduiertenförderung Baden-Württemberg</i>

Publications in peer-reviewed journals

Loenneker, H.D., Artemenko, C., Willmes, K., Liepelt-Scarfone, I. and Nuerk, H.-C. (2024), Deficits in or Preservation of Basic Number Processing in Parkinson’s Disease? A Registered Report. *J Neurosci Res*, 102: e25397. <https://doi.org/10.1002/jnr.25397> [Stage 2 Registered Report]

Loenneker, H.D., Cipora, K., Artemenko, C., Soltanlou, M., Bellon, E., De Smedt, B., García-Orza, J., Giannouli, V., Gutiérrez-Cordero, I., Lipowska, K., van Dijck, J.-P., Yao, X., Nuerk, H., & Huber, J. (2024). Math4Speed - a freely available measure of arithmetic fluency. *Canadian Journal of Experimental Psychology*. <https://doi.org/10.1037/cep0000347>

Loenneker, H.D., Buchanan, E.M.*, Martinovici, A.*, Primbs, M.A.*, Elsherif, M.M., Baker, B.J., Dudda, L.A., Durdevic, D.F., Misic, K., Peetz, H.K., Röer, J.P., Schulze, L., Wagner, L., Wolska, J.K., Kührt, C.*, & Pronizius, E.* (2024). We don’t know what you did last summer. On the importance of transparent reporting of reaction time data pre-processing. *Cortex*, 172, 14-37. <https://doi.org/10.1016/j.cortex.2023.11.012>

Loenneker, H.D., Liepelt-Scarfone, I., Willmes, K., Nuerk, H.-C., & Artemenko, C. (2022). Arithmetic deficits in Parkinson’s Disease? - A registered report. *PCI Registered Reports*. <https://doi.org/10.17605/OSF.IO> [Stage 1 Registered Report]

Loenneker, H.D., Huber, J., Artemenko, C., Heller, J., & Nuerk, H.C. (2022). Realitätscheck Open Science in der universitären Lehre. *Psychologische Rundschau*, 73(1), 18 - 52. <https://doi.org/10.1026/0033-3042/a000577>

Loenneker, H.D., Becker, S., Nußbaum, S., Nuerk, H.-C.*, & Liepelt-Scarfone, I.* (2021). Arithmetic Errors in Financial Contexts in Parkinson’s Disease. *Frontiers in Developmental Psychology*, 12:629984. <https://doi.org/10.3389/fpsyg.2021.629984>

Loenneker, H.D., Artemenko, C., Willmes, K., Liepelt-Scarfone, I., & Nuerk, H.-C. (2021). Deficits in or preservation of basic number processing in Parkinson’s Disease? A registered report. *Journal of Neuroscience Research*, 99(10), 2390-2405. <https://doi.org/10.1002/jnr.24907> [Stage 1 Registered Report]

- Sulzer, P., Bäumer, A., Hoang, G., Becker, S., **Lönneker, H.D.**, Graessel, E., & Liepelt-Scarfone, I. (2020). Assessment of cognitive-driven performance-based instrumental activities of daily living dysfunctions in Parkinson's Disease. *Journal of the International Neuropsychological Society*, 26(4), 430-440. <https://doi.org/10.1017/S1355617719001322>
- Loda, T., Erschens, R., **Loenneker, H.**, Keifenheim, K.E., Nikendei, C., Junne, F., Zipfel, S., & Herrmann-Werner, A. (2019). Cognitive and social congruence in peer-assisted learning. A scoping review. *PLoS One*, 14(9): e0222224. <https://doi.org/10.1371/journal.pone.0222224>

Pre-prints, Pre-registrations and Manuscripts in preparation

- Pilot Reporting Task Force (2024). *Piloting practices across psychological sub-disciplines*. Technical report. <https://doi.org/10.17605/OSF.IO/3QDY2>
- Loenneker, H.D.**, Artemenko, C., Willmes, K., Nuerk, H.-C. & Liepelt-Scarfone, I. (2024, February 9). *How does numerical cognition relate to activities of daily living in Parkinson's Disease?*. Pre-registration. <https://doi.org/10.17605/OSF.IO/TWES8>
- Loenneker, H.D.**, Ansari, D., Nuerk, H.-C. (2023, September 4). *Zero counts - A Cash-Based Approach to Testing Numeracy Skills and Learning Strategies in Rural Sierra Leone*. Pre-registration. <https://osf.io/aupxf>
- Loenneker, H.D.***, Sulzer, P.*, Hoang, H.G., Heger, T., Solbrig, S., & Liepelt-Scarfone, I. (2023). *Performance-based activities of daily living and longitudinal cognitive outcome in patients with Parkinson's Disease - First insights*. Manuscript submitted for publication.
- Loenneker, H.D.**, Huber, J., Liepelt-Scarfone, I., & Nuerk, H. (2022, June 15). *Evidence on the Approximate Number System from Parkinson's Disease: Inferences for a theory of numerical cognition from a clinical population*. Pre-registration. <https://doi.org/10.17605/OSF.IO/3NKJ4>
- Loenneker, H.**, Nuerk, H., & Artemenko, C. (2021, August 12). *Changes in numerical cognition across aging? A systematic review and meta-analysis*. Pre-registration. <https://osf.io/76qgv>
- Loenneker, H.**, Huber, J. F., Arndt, E., Liepelt-Scarfone, I., & Nuerk, H. (2021, February 12). *Review Protocol on Numerical and Arithmetic Impairments in Alzheimer, Parkinson's Dementia and Dementia with Lewy Bodies*. Pre-registration. <https://doi.org/10.31234/osf.io/z57wr>
- Cipora, K.*, **Loenneker, H.***, Soltanlou, M., Lipowska, K., Domahs, F., Göbel, S. M., Haman, M., & Nuerk, H.-C. (2020). *Syntactic influences on numerical processing in adults: Limited but detectable*. Manuscript submitted for publication. <https://psyarxiv.com/ewtd4>

*equal contribution

Open testing material and curated datasets

- Datasets and codebooks for: Deficits in or preservation of basic number processing in Parkinson's Disease, <https://doi.org/10.23668/psycharchives.15511>
- Testing material and analysis scripts for: Deficits in or preservation of basic number processing in Parkinson's Disease, <https://osf.io/ap6je/>
- Datasets, analysis scripts and testing material for: Math4Speed - a freely available measure of arithmetic fluency, <https://osf.io/ze8gh/>

Talks and conference contributions

- Loenneker, H.D.**, Artemenko, C., Liepelt-Scarfone, I., Willmes, K., & Nuerk, H.-C. *Basic numerical cognition, arithmetic, and activities of daily living in Parkinson's Disease*. [Symposium talk]. Psychologie und Gehirn 2024: Hamburg.
- Loenneker, H.D.**, Buchanan, E.M., Martinovici, A., Primbs, M.A., Elsherif, M.M., Baker, B.J., Dudda, L., Durdević, D.F., Mišić, K., Peetz, H.K., Röer, J.P., Schulze, L., Wagner, L., Wolska, J.K., Kührt, C., & Pronizius, E. (2023, June) *Introducing a checklist on reporting reaction time pre-processing steps*. [Lightning talk]. Society for the Improvement of Psychological Science Conference, Padua: Italy.
- Loenneker, H.D.**, Artemenko, C., Liepelt-Scarfone, I., Willmes, K., & Nuerk, H.-C. (2023, June). *Basic numerical cognition, arithmetic, and numerical activities of daily living in Parkinson's Disease*. [Invited talk]. Department of Mathematics Education seminar, Loughborough University: online.
- Loenneker, H.D.**, Artemenko, C., Liepelt-Scarfone, I., Willmes, K., & Nuerk, H.-C. (2023, June). *Basic numerical cognition, arithmetic, and numerical activities of daily living in Parkinson's Disease*. [Symposium talk]. Mathematical Cognition and Learning Society Conference 2022, Loughborough: UK.
- Loenneker, H.D.**, Sulzer, P., Hoang, H.G., Heger, T., Solbrig, S., & Liepelt-Scarfone, I. (2023, March). *Objektive Messung von Alltagskompetenz und kognitivem Status bei nicht-dementen Patient*innen mit Morbus Parkinson*. [Poster]. Parkinson und Bewegungsstörungen - Highlights Digital 2023, Online.
- Workshop organization: **Loenneker, H.D.**, Int-Veen, I., & Semeia, L. (2022, September). *Promoting transparency and replicability in research*. Eberhard Karls University, Tübingen, Germany. <https://osf.io/a8uxz/>
- Chairs: Volz, Grüning, Katzinger, Frank; Discussants: Volz, L., **Loenneker, H.D.**, Gärtner, A., Lüken, U., Frank, M., Bühner, M. (2022, September). *Open Science in die Lehre - die Kontroverse um die Umsetzung eines Kulturwandels* [Discussant at panel discussion]. 52. Kongress der Deutschen Gesellschaft für Psychologie, Hildesheim: Germany.
- Loenneker, H.D.** (2022, August). *Basic Numerical Cognition in Parkinson's Disease* [Poster]. 5th FESN Autumn School, Berlin: Germany.
- Loenneker, H.D.**, Nuerk, H.-C., & Artemenko, C. (2022, June). *Changes in Numerical Cognition due to Aging? A Systematic Review and Meta-Analysis* [Poster]. Mathematical Cognition and Learning Society Conference 2022: Multiple Perspectives on Numerical Cognition and Learning, Antwerp: Belgium.
- Loenneker, H.D.**, Becker, S., Nussbaum, S., Nuerk*, H.-C., & Liepelt-Scarfone, I.* (2021, September). *Sociodemographic, cognitive, and clinical factors explaining financial-arithmetic errors in Parkinson's Disease* [Poster]. MDS Virtual Congress 2021, virtual conference. <https://mdscongress.org/>
- Summer school co-organization: Artemenko, A., Schröder, P., & Dresler, T. (2021, August). *Hands-on fNIRS data analysis for fundamental, applied and clinical research*. Eberhard Karls University, Tübingen, Germany.
- Cipora, K., & **Loenneker, H.D.** (2021, June). *(Too) many shades of reaction time data preprocessing* [Unconference session]. Society for the Improvement of Psychological Science (SIPS) 2021 meeting, virtual conference, originally Padua: Italy. <https://osf.io/mnv7w/>

- Cipora, K., & **Loenneker, H.D.** (2021, June). *(Too) many shades of reaction time data preprocessing* [Hackathon]. Society for the Improvement of Psychological Science (SIPS) 2021 meeting, virtual conference, originally Padua: Italy. <https://osf.io/mnv7w/>
- Loenneker, H.D.**, Huber, J.F., Cipora, K., & Nuerk, H.-C. (2021, June). *Testing arithmetic competences adaptively* [Poster]. Society for the Improvement of Psychological Science (SIPS) 2021 meeting, virtual conference, originally Padua: Italy. <https://osf.io/unsmz/>
- Loenneker, H.D.**, Huber, J.F., Liepelt-Scarfone, I., & Nuerk, H.-C. (2021, March). *Do Inhibition and Visuo-Spatial Function Influence Non-symbolic Magnitude Processing in Parkinson's Disease?* [Poster]. BNA Festival of Neuroscience, virtual conference. <https://bna.org.uk/bna2021/>
- Loenneker, H.D.**, Artemenko, C., Liepelt-Scarfone, I., & Nuerk, H.-C. (2020, June). *Basic number processing in Parkinson's Disease - a preregistration*. [Poster] Mathematical Cognition and Learning Society: MCLS 2020, Dublin: Ireland. <https://www.the-mcls.org>.
- Loda, T., Erschens, R., **Lönneker, H.**, Keifenheim, K.E., Nikendei, C., Zipfel, S., & Herrmann-Werner, A. (2019, March). *„Ich vertraue meinem Tutor“ – Kognitive und soziale Kongruenz auf der konkreten Verhaltensebene im Peer-assisted-learning*. Talk given at the Deutscher Kongress für Psychosomatische Medizin und Psychotherapie 2019, Berlin: Germany.
- Cipora, K., Soltanlou, M., Lipowska, K., **Loenneker, H.D.**, Domahs, F., Göbel, S.M., Haman, M., & Nuerk, H.-C. (2018). *Influences of grammatical number on numerical processing in educated adults* [Poster session]. Third Jean Piaget Conference: The origin of numbers. Geneva: Switzerland.

Student supervision

- Winter 2023/24 Co-supervision of bachelor student
David Engelken: *Numerische Kognition bei Lewy Körperchen Demenz: Systematischer Übersichtsartikel* (B.Sc. Psychology)
- Winter 2022/23 Co-supervision of bachelor student
Ronja Brandhorst: *A Systematic Review on Patients with Parkinson's Disease and Impairment of Number Processing* (B.Sc. Psychology)
- Summer 2022 Co-supervision of bachelor students
Annalena Wels: *Grundlegende Zahlenverarbeitung bei Parkinson-Patienten mit und ohne kognitive Einschränkungen* (B.Sc. Psychology)
Melina Ali Babaiyan Ghazvini: *Parkinson, numerische und nicht-numerische Alltagsaktivitäten und Depressionen* (B.Sc. Psychology)
- Winter 2021/22 Supervision of student intern
Paula Krieger (Study orientation internship)
Co-supervision of undergraduate research projects
Julia König: *Gesundheitsbezogene Lebenszufriedenheit und alltagsrelevante numerische Fähigkeiten bei Morbus Parkinson* (M.Sc. Psychology)
Katarina Sivec: *Zahlenverarbeitung bei Morbus Parkinson* (M.Sc. Psychology)
Martin Skopp: *Zahlenverarbeitung unter Morbus Parkinson* (M.Sc. Psychology)
- Summer 2021 Co-supervision of bachelor and master students
Margarete Scharlipp: *Rechnen im Alter - ein systematisches Review* (B.Sc. Psychology)
Rahel Stahl: *Repräsentation von numerischer Größe bei Morbus Parkinson* (M.Sc. Psychology)
Lena Urbanzyk: *Verarbeitung von Objektmengen in Morbus-Parkinson-Patienten. Der Einfluss von Neurodegeneration auf die Differenzierung nichtsymbolischer Mengen* (M.Sc. Neurobiology)
- Winter 2020/21 Co-supervision of undergraduate research projects
Leonie Krauß: *Beeinträchtigung der Transkodierleistung bei Alzheimer Demenz - ein systematisches Review* (M.Sc. Psychology)
Selina Galefski: *Beeinträchtigungen der Rechenfähigkeit bei der Alzheimer-Demenz: global oder domänenspezifisch? - Ein systematisches Review* (M.Sc. Psychology)
- Summer 2020 Co-supervision of bachelor students
Elisabeth Arndt: *Systematisches Review zur Beeinträchtigung der Zahlenverarbeitung bei frontotemporaler Demenz* (B.Sc. Psychology)
Carlotta Heni: *Leichte kognitive Einschränkungen bei Parkinson: Arithmetische Leistung als Prädiktor des kognitiven Status'?* (B.Sc. Psychology)
Maike Klett: *Kopfrechendefizite bei Parkinson: Welche Rolle spielen spezifische Prozesse der Zahlenverarbeitung?* (B.Sc. Psychology)

Public science communication

- Loenneker, H.D. (2022, June). *Das Akademische Viertel 19 – Über Parkinson und spannende Wege der Zahlenverarbeitung*. [Podcast] <https://seitenwaelzer.de/das-akademische-viertel-19-uber-parkinson-und-spannende-wege-der-zahlenverarbeitung>
- Loenneker, H.D., & Artemenko, C. (2022, May). *Was passiert im Kopf, wenn man rechnet? - Rechnen im Gehirn über das Altern*. [Public science communication]. Begegnungsstätte Hirsch, Tübingen, Germany.
- Loenneker, H.D. (2021, November). *Defizite der (numerischen) Kognition bei Parkinson*. [Public science communication]. Deutsche Parkinson Vereinigung e.V. - Regionalgruppe Reutlingen-Tübingen, Germany.

Reviews for peer-reviewed journals

- Psychological Research (1 x 2024)
- Journal of European Psychology Students (1 x 2022, 1 x 2023, 1 x 2024)
- PCI Registered Reports (1 x 2021, 1 x 2024)
- Journal of Cognitive Psychology (1 x 2021)
- Frontiers in Aging Neuroscience (1 x 2021)
- Cognitive Processing (1 x 2020)
- <https://publons.com>

Social commitment

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| 10/2019 - 05/2023 | Tübinger Hospizdienste |
| 10/2020-05/2022 | Solidaritätsfonds Friedrich Ebert Stiftung |
| 06/2019-12/2021 | Medinetz Tübingen e.V. |
| 11/2014 - 06/2016 | Lebenshilfe Tübingen |
| 05/2014 - 10/2015 | Bruderhaus Diakonie Kusterdingen |
| 10/2013-05/2019 | Association of psychology students Tübingen |
| 06/2012-06/2013 | European Voluntary Service, King's Lynn (UK) |

Memberships

- Alumni association Eberhard-Karls University Tübingen
- Alumni association Hainberg Gymnasium Göttingen
- Alumni association Sachsenhaus e.V.
- Gesellschaft für Neuropsychologie e.V.
- Arbeitsgemeinschaft für Verhaltensmodifikation (AVM e.V.)

Other skills and interests

Language skills	German (mother tongue) English (C1) French (B2) Spanish (B2)
Computer skills	Microsoft Office 365: advanced text editing, presentations, spreadsheet application R: advanced data preparation, analysis, visualisation jamovi: basic data analysis, visualisation JASP: basic data analysis, visualisation SPSS & AMOS: basic data curation and analysis LaTeX: basic text editing MAXQDA: basic qualitative text analyses
Interests	Yoga, climbing, literature, travelling, politics