NORA TUROMAN, PhD

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Languages: English, Serbian, Hungarian (native proficiency), French (full professional proficiency)

RESEARCH

EDUCATION & POSITIONS

Aug 2022 – present **Consultant (part-time)**
Jacobs Foundation, Zürich, CH

Jan 2022 – present **Junior Group Leader (Jacobs Foundation Research Fellow 2022-2024)**
Working Memory, Cognition and Development lab, Faculty of Psychology and Educational Sciences, University of Geneva, Geneva, CH
Host: Prof. Evie Vergauwe

Oct 2020 – present **Postdoctoral Researcher**
Working Memory, Cognition and Development lab, Faculty of Psychology and Educational Sciences, University of Geneva, Geneva, CH
Advisor: Prof. Evie Vergauwe

Resulting publications:

1. Turoman, N., Vergauwe, E. (Under review). The effect of Multisensory distraction on working memory: A role for task relevance? *Journal of Experimental Psychology: Learning, Memory, and Cognition.*
2. Turoman, N., Heyard, R., Schwab, S., Furrer, E., Vergauwe, E., & Held, L. (Under review). Constructing and implementing PRECHECK: A checklist to evaluate preprints on COVID-19 and beyond. *Research integrity and Peer review.*
3. Turoman, N., Hautekiet, C., Jeanneret, S., Valentini, B., & Langerock, N. (2022). Open and reproducible practices in developmental psychology research: The workflow of the WomCogDev lab as an example. *Infant and Child Development, e2333*, 1-17.

Oct 2016 – Jun 2020 **PhD in Neuroscience (passed with best marks and minor corrections)**
Department of Radiology, University of Lausanne (UniL)/University Hospital Center (CHUV), and Institute of Information Systems, HES-SO Valais, CH
Supervisors: Dr Paul Matusz (direct supervisor) & Prof. Micah Murray (thesis director)

Resulting publications:

1. Turoman, N., Tivadar, R. I., Retsa, C., Murray, M. M., and Matusz, P. (2021). Towards understanding how we pay attention in naturalistic visual search settings. *NeuroImage, 244, 118556.*
2. Turoman, N., Tivadar, R. I., Retsa, C., Maillard, A. M., Scerif, G., and Matusz, P. (2021). Uncovering the mechanisms of real-world attentional control over the course of primary education. *Mind, Brain, and Education, 15*(4), 344-353.
3. Turoman, N., Tivadar, R. I., Retsa, C., Maillard, A. M., Scerif, G., and Matusz, P. (2021). The development of attentional control mechanisms in multisensory environments. *Developmental Cognitive Neuroscience, 48,* 100930.
4. Matusz, P., Turoman, N., Tivadar, R. I., Retsa, C., and Murray, M.M. (2019) Brain and cognitive mechanisms of top-down attentional control in a multisensory world: Benefits of electrical neuroimaging. *Journal of Cognitive Neuroscience, 31*(3), 412-430.
5. Turoman, N., Merkley, R., Scerif, G., and Matusz, P. (2017) How Do Kids and Grown-Ups Get Distracted in Everyday Situations? *Frontiers for Young Minds, 5*(8).

Oct 2015 – Oct 2016 **MSc in Psychological Research (Upper second class = magna cum laude)**
Department of Experimental Psychology, University of Oxford, UK
Supervisor: Prof. Charles Spence

Resulting publication: Turoman, N., Velasco, C., Chen, Y.-C., Huang, P.-C., & Spence, C. (2018). Symmetry and its role in the crossmodal correspondence between shape and taste. *Attention, Perception, & Psychophysics, 80*(3), 738-75

Nov 2014 – Sept 2015 **Research Assistant**
Brain, Language, and Intersensory Perception (BLIP) lab, College of Humanities and Social Sciences, Nanyang Technological University, SG
Supervisor: Prof. Suzy Styles
Resulting publication: Turoman, N., & Styles, S. J. (2017). Glyph guessing for 'oo' and 'ee': spatial frequency information in sound symbolic matching for ancient and unfamiliar scripts. Royal Society Open Science, 4(9), 170882.

Jan 2012 – Jul 2014 **BSc (Hons) in Psychological Studies (First class = summa cum laude)**
Cardiff Metropolitan University, Singapore branch

FUNDING

Jacobs Foundation Research Fellowship Program 2022-2024.
Jacobs Foundation, Zurich, CH. Grant number: 2021-1417-00. "Understanding learning through the effects of real-world distraction on developing memory" (CHF 150,000)

AWARDS AND CAREER DEVELOPMENT

2022 **Professional development workshop: Project management for successful researchers.** Ateliers REGARD, University of Fribourg, CH
2021 **Mentee position in the Réseau romand de mentoring pour femmes.** University of Fribourg, CH
2019 **Flux pre-conference workshop stipend.** Flux: the Society for Developmental Cognitive Neuroscience (funded by the Hope Lab and the Bezos Family Foundation; CHF 123)
2019 **Lemanic Neuroscience Travel Award.** University of Lausanne, CH (CHF 1,085)

PUBLICATIONS

Registered Reports

1. **Turoman, N.**, Vergauwe, E. (under review). The effect of Multisensory distraction on working memory: A role for task relevance? *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
   Preregistration: https://osf.io/z6jwt
   Open data, and materials: https://osf.io/y84ks/

Peer-reviewed publications

1. **Turoman, N.**, Heyard, R., Schwab, S., Furrer, E., Vergauwe, E., & Held, L. (Under review). Constructing and implementing PRECHECK: A checklist to evaluate preprints on COVID-19 and beyond. *Research integrity and Peer review*.
   Preprint: https://osf.io/preprints/metaarxiv/nb928/
   Open data, and supplementary materials: https://osf.io/8k9ac/

2. Tivadar, R. I., Arnold, R. C., **Turoman, N.**, Knebel, J. F., & Murray, M. M. (2022). Digital Haptics Improve Speed of Visual Search Performance in a Dual-Task Setting. *Scientific Reports, 12*, 9728.

3. **Turoman, N.**, Hautekiet, C., Jeanneret, S., Valentini, B., & Langerock, N. (2022). Open and reproducible practices in developmental psychology research: The workflow of the WomCogDev lab as an example. *Infant and Child Development, e2333*, 1-17.
   Pre-print: https://psyarxiv.com/73bwu/

4. **Turoman, N.**, Tivadar, R. I., Retsa, C., Murray, M. M., and Matusz, P. (2021). Towards understanding how we pay attention in naturalistic visual search settings. *NeuroImage, 244*, 118556.
   Pre-print: https://www.biorxiv.org/content/10.1101/2020.07.30.229617v4

5. **Turoman, N.**, Tivadar, R. I., Retsa, C., Maillard, A. M., Scerif, G., and Matusz, P. (2021). Uncovering the mechanisms of real-world attentional control over the course of primary education. *Mind, Brain, and Education, 15*(4), 344-353.
   Pre-print: https://www.biorxiv.org/content/10.1101/2020.10.20.342758v2.abstract

6. **Turoman, N.**, Tivadar, R. I., Retsa, C., Maillard, A. M., Scerif, G., and Matusz, P. (2021). The development of attentional control mechanisms in multisensory environments. *Developmental Cognitive Neuroscience, 48,* 100930. Pre-print: https://www.biorxiv.org/content/10.1101/2020.06.23.166975v3.abstract

7. Matusz, P., **Turoman, N.**, Tivadar, R., Retsa, C., and Murray, M.M. (2019). Brain and cognitive mechanisms of top-down attentional control in a multisensory world: Benefits of electrical neuroimaging. *Journal of Cognitive Neuroscience, 31*(3), 412-430.

8. Tivadar, R.I., Rouillard, T., Chappaz, C., Knebel, J.-F., **Turoman, N.**, Anaflous, F., Roche, J., Matusz, P., and Murray, M.M. (2019). Mental Rotation of Digitally-Rendered Haptic Objects. *Frontiers in Integrative Neuroscience, 13, 7*.

9. Tivadar, R.I., Retsa, C., **Turoman, N.**, Matusz, P.-J., and Murray, M.M. (2018). Sounds enhance visual completion processes. *Neuroimage, 179,* 480-488.

10. **Turoman, N.**, Velasco, C., Chen, Y.-C., Huang, P.-C., and Spence, C. (2018). Symmetry and its role in the crossmodal correspondence between shape and taste. *Attention, Perception, & Psychophysics, 80*(3), 738-751. Open data, materials, and code: https://osf.io/qn593/

11. **Turoman, N.**, and Styles, S. J. (2017). Glyph guessing for 'oo' and 'ee': spatial frequency information in sound symbolic matching for ancient and unfamiliar scripts. *Royal Society Open Science, 4*(9), 170882. Open materials: https://osf.io/xufmd/

12. **Turoman N**, Merkley R, Scerif G and Matusz P (2017) How Do Kids and Grown-Ups Get Distracted in Everyday Situations? *Frontiers for Young Minds. 5*(8). 1-9.

INVITED TALKS

8 th Nov, 2022	**Leibniz Research Centre for Working Environment and Human Factors.** Dortmund, Germany. "Attention and memory in a multisensory world"
11th Aug, 2021	**Peelle lab.** St. Louis, MO, USA. "Do masks affect children's speech comprehension? A sneak peek of a grassroots study"
24th Feb, 2021	**Attention, Brain & Cognitive Development lab.** Oxford, UK. "Uncovering the mechanisms of real-world attentional control over the course of primary education."

CONFERENCE PRESENTATIONS

7th – 9th Sep, 2022	**Flux Congress 2022, Paris, FR** Poster: "Can we decode school-aged children's working memory contents? Our proof-of-concept study suggests so."
18th Nov, 2019	**1st Annual Meeting of the Swiss Society for Early Childhood Research (SSECR), Lausanne, CH** Flash talk: "Educational outcomes depend both on visual and multisensory control of selective attention"
24th – 26th Oct, 2019	**Rovereto Attention Workshop, Rovereto, IT** Poster: "Educational outcomes depend both on visual and multisensory control of selective attention"
29th Aug – 1st Sep, 2019	**Flux Congress 2019, New York, NY, USA** Poster: "Educational outcomes depend both on visual and multisensory control of selective attention"
3rd – 4th Apr, 2019	**1st Annual Meeting of the NeuroLeman Network and Doctoral Schools 2019 (NLN'19), Les Diablerets, CH** Poster: "Educational outcomes depend both on visual and multisensory control of selective attention"
27st – 29rd Sep, 2018	**The International Mind Brain and Education Society 2018 Conference, Los Angeles, CA, USA** Poster: "Multisensory control over developing visual selective attention and its role in educational outcomes"
2nd – 3rd Sep, 2018	**Lemanic Neuroscience Annual Meeting (LNAM) 2018, Les Diablerets, CH**

Poster: "Taking attention back to school: Multisensory processes influence developing visual attention control"

30th Aug – 1st Sep, 2018 **Flux Congress 2018, Berlin, DE**
Poster: "Taking attention back to school: Multisensory processes influence developing visual attention control"

1st – 2nd Sep, 2017 **Lemanic Neuroscience Annual Meeting (LNAM) 2017, Les Diablerets, CH**
Presentation of scientific poster: "Semantics in the multisensory brain: Insights from electrical neuroimaging"

19th – 22nd May, 2017 **International Multisensory Research Forum (IMRF) 2017, Nashville, TN, USA**
Poster: "Semantics in the multisensory brain: Insights from electrical neuroimaging"

28th Aug – 1st Sep, 2016 **European Conference of Visual Perception (ECVP) 2016, Barcelona, ES**
Poster: "Visual symmetry influences the cross-modal correspondence between visual shape and taste"

TEACHING

LECTURES & WORKSHOPS

31st May, 2022 **Workshop (lecture and practical), "How to prevent misinformation with PRECHECK: A checklist to evaluate preprints on COVID-19 and beyond"**, at: "Fact checking for science journalists – how to make sure the story is true", Swiss National Science Foundation, CH

9th May, 2022 **Guest lecture and practical, "Preprints and peer-review"** in: "Compétences et connaissances scientifiques en psychologie", Bachelors in Psychology, University of Geneva, CH

22nd Mar, 2022 **Guest lecture "Chapter 3: The development of attention"** in: "Le développement cognitif de l'enfant", Bachelors in Psychology, University of Geneva, CH

13th Oct, 2021 **Workshop (lecture and practical), "Experimental paradigms made simple (and online) with Psychopy Builder and Pavlovia"**, University of Zurich, CH

3rd May, 2021 **Guest lecture and practical, "Preprints and peer-review: a deep dive"** in: "Compétences et connaissances scientifiques en psychologie", Bachelors in Psychology, University of Geneva, CH

16th Mar, 2021 **Guest lecture "Chapter 3: The development of attention"** in: "Le développement cognitif de l'enfant", Bachelors in Psychology, University of Geneva, CH

COURSES

June 2022 **Grading asistant** on Bachelors in Psychology course: " Les activités numériques et leur développement", University of Geneva, CH
Responsibilities: assigning grades based on performance in exam

Jan 2022 – present **Exam assistant** on Bachelors in Psychology course: "Introduction à la psychologie du développement cognitif ", University of Geneva, CH
Responsibilities: administrating and invigilating final exam

Feb 2021 – present **Teaching assistant** on Bachelors in Psychology course: "Le développement cognitif de l'enfant", University of Geneva, CH (evaluation result: 3.79 out of 4)
Responsibilities: informing students on course requirements, ad-hoc handling of student queries, giving guest lecture, assistance during practical lessons, creating exam questions, preparing, administrating, and invigilating final exam, assigning grades based on performance in assignments and final exam

Oct 2020 – Jan 2021 **Grading asistant** on Bachelors in Psychology course: "Des théories en psychologie du développement cognitif à la pratique", University of Geneva, CH
Responsibilities: assigning grades based on performance in assignments

AD-HOC TRAINING

Apr 2022 – present	**EEG with Biosemi**, for WomCogDev lab members, University of Geneva, CH
Oct 2016 – Jun 2020	**EEG lab use**, for researchers and clinicians, Lausanne University Hospital (CHUV), CH

SERVICE

SUPERVISION

Nov 2022 – June 2023	**Alyssia Kursner** – Master student in Psychology, University of Geneva, CH **Audrey Barberot** – Master student in Psychology, University of Geneva, CH **Brunella Terrapon** – Master student in Psychology, University of Geneva, CH
Sep 2022 – Dec 2022	**Kishen Senziani** – Research Assistant, University of Geneva, CH
Feb 2022 – June 2023	**Anae Motz** – research project student (Until June 2022), Research Assistant (Sep 2022 – June 2023), University of Geneva, CH
Oct 2021 – June 2022	**Danja Conconi** – Master student in Psychology (co-supervision), University of Zurich, CH **Franziska Hürlimann** – Master student in Psychology (co-supervision), University of Zurich, CH
Sep 2021 – June 2023	**Elodie Walter** – intern (until Dec 2021), Research Assistant (Feb 2022 – June 2023), University of Geneva, CH
Sep 2021 – June 2022	**Clélia Zahnd** – Research Assistant, University of Geneva, CH

COMMITTEE WORK

In thesis committees

June 2022

- **Margaux Rollot, candidate for the Masters in Psychology**, University of Geneva, CH (external jury member, topic expert): "Le multitasking: Est-il fait de façon différente pour les enfants que pour les adultes?"
- **Sarah Da Costa Arezes, candidate for the Masters in Psychology**, University of Geneva, CH (external jury member, topic expert): "Le multitasking: Est-il fait de façon différente pour les enfants que pour les adultes?"
- **Michelle Nicole Santos Quintanilla, candidate for the Masters in Psychology**, University of Geneva, CH (external jury member, topic expert): "Le multitasking: Est-il fait de façon différente pour les enfants que pour les adultes?"

Sept 2021

- **Mégane Marguerat, candidate for the Masters in Psychology**, University of Geneva, CH (external jury member, topic expert): "Est-ce que les performances de rappel des enfants de 6 à 11 ans bénéficient du rafraîchissement attentionnel quand son utilisation est imposée ?"
- **Nada Abou el Maati, candidate for the Masters in Psychology**, University of Geneva, CH (external jury member, topic expert): "Le rafraîchissement attentionnel imposé chez les enfants de 6-7 ans et de 10-11 ans"

In hiring committees

May 2022

- **Andreas Ihle, candidate for Assistant Professor in Psychology of Lifespan Development**, University of Geneva, CH (internal jury member, representing research and teaching staff): "Development of reserves and vulnerability: an interdisciplinary lifespan perspective"

PROFESSIONAL MEMBERSHIPS

2021 – ongoing	UniGe local node of the Swiss Reproducibility Network
2021 – ongoing	L'Association des Collaborateur.rice.s de l'Enseignement et de la Recherche en Psychologie (ACERP)
2018 – ongoing	Flux: the Society for Developmental Cognitive Neuroscience
2018 – 2023	The Swiss Society for Early Childhood Research (SSECR)

REVIEWING ACTIVITY

Journals

- Developmental Psychology
- Frontiers in Psychology
- Wiley Interdisciplinary Reviews: Cognitive Science
- Multisensory Research
- Psychological Research

Grants

Swiss National Science Foundation (SNSF)

SCIENCE COMMUNICATION AND EDUCATION

21st Oct, 2021	**Educational event for teachers at the Cycle d'orientation de Sécheron,** Geneva, Switzerland Held a lecture and interactive workshop for secondary school teachers on how working memory disorders manifest in the classroom, and how to support children with such problems as part of the educational event entitled "Mon élève n'apprend pas: Troubles neuro-développementaux et apprentissages".
Apr 2021 – July 2022	**PRECHECK: A checklist to evaluate COVID-19 preprints** Created a teaching tool in the form of a checklist to help scientifically-literate non-specialists critically evaluate preprints. Prepared and taught classes for psychology students and journalists at the University of Geneva on scientific publishing and preprints.
23rd Jan, 2020	**MedGIFT writing workshop** Collaborated on a blog post hosted on Medium.com entitled 'How to 'crack the code' of the developing brain?'
23rd – 26th May, 2019	**Mysteres de l'UniL, University of Lausanne, Lausanne, Switzerland** Presented interactive workshop: 'Visual Problems: See the World Through Their Eyes' including a dyslexia simulation task (4 days, approx. 140 children – one of the most popular exhibits)
15th May, 2019	**Jacobs Foundation's Blog on Learning and Development (BOLD)** Blog post entitled 'How to bridge the gap between families and the science of learning'.
17th – 18th Nov, 2018	**L'Hôpital des Nounours, CHUV, Lausanne, Switzerland** Informing participating families on research work (my own, and in the field of developmental cognitive neuroscience) and recruiting interested families for ongoing research
4th – 5th Nov, 2017	**L'Hôpital des Nounours, CHUV, Lausanne, Switzerland** Informing participating families on research work (my own, and in the field of developmental cognitive neuroscience) and recruiting interested families for ongoing research
March – May, 2017	**Frontiers for Young Minds: Understanding Neuroscience** *Author on:* **Turoman N**, Merkley R, Scerif G and Matusz P (2017) How Do Kids and Grown-Ups Get Distracted in Everyday Situations? *Frontiers for Young Minds. 5(8).* doi: 10.3389/frym.2017.00008 *Science mentor/reviewer on:* Myers T (2017) Getting Out of the Laboratory to Make Experiments Real: Can Sports Fans Influence Muay Thai Judges? *Frontiers for Young Minds. 5*(13).
17th – 19th Nov, 2015	**Food Matters Live, ExCel, London, UK** Exhibiting experimental research as part of the Food Sensorium Attraction
18th – 23rd Aug, 2015	**Soundislands Festival (SI15), Nanyang Technological University and ArtScience Museum, Singapore** Interactive live demonstration of previous research work