

# NORA TUROMAN, PhD

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

## RESEARCH

### EDUCATION & POSITIONS

- 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
- 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:*
  - [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.
  - [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*, 12296.
  - [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.
  - 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.
  - [Turoman, N.](#), Merkle, 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 – Sept 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

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### Jacobs Foundation Research Fellowship Program 2022-2024.

Jacobs Foundation, Zurich, CH. "Understanding learning through the effects of real-world distraction on developing memory" (CHF 150,000)

## AWARDS AND SUPPORT

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- 2021 **Mentee position in the Réseau romand de mentoring pour femmes.** University of Fribourg, CH (non-monetary)
- 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)
- 2014 **Meritorious Award for graduating with First Class Honours.** Cardiff Metropolitan University, UK (non-monetary)

## PUBLICATIONS

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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.  
Pre-print: <https://doi.org/10.1101/2020.07.30.229617>
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*, 12296.  
Pre-print: <https://doi.org/10.1101/2020.10.20.342758>
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.  
Pre-print: <https://doi.org/10.1101/2020.06.23.166975>
4. 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.
5. Tivadar, R.I., Rouillard, T., Chappaz, C., Knebel, J.-F., **Turoman, N.**, Anafloos, F., Roche, J., Matusz, P., and Murray, M.M. (2019). Mental Rotation of Digitally-Rendered Haptic Objects. *Frontiers in Integrative Neuroscience*, 13, 7.
6. Tivadar, R.I., Retsa, C., **Turoman, N.**, Matusz, P.-J., and Murray, M.M. (2018). Sounds enhance visual completion processes. *Neuroimage*, 179, 480-488.
7. **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/>
8. **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/>
9. **Turoman N**, Merkle R, Scerif G and Matusz P (2017) How Do Kids and Grown-Ups Get Distracted in Everyday Situations? *Frontiers for Young Minds*. 5(8).

## INVITED TALKS

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- 11<sup>th</sup> Aug, 2021 **Peelle lab.** St. Louis, MO, USA. "Do masks affect children's speech comprehension? A sneak peek of a grassroots study"
- 24<sup>th</sup> 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

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- 18<sup>th</sup> Nov, 2019      **1<sup>st</sup> 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”
- 24<sup>th</sup> – 26<sup>th</sup> Oct, 2019      **Rovereto Attention Workshop, Rovereto, IT**  
Poster: “Educational outcomes depend both on visual and multisensory control of selective attention”
- 29<sup>th</sup> Aug – 1<sup>st</sup> Sep, 2019      **Flux Congress 2019, New York, NY, USA**  
Poster: “Educational outcomes depend both on visual and multisensory control of selective attention”
- 3<sup>rd</sup> – 4<sup>th</sup> Apr, 2019      **1<sup>st</sup> 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”
- 27<sup>th</sup> – 29<sup>rd</sup> 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”
- 2<sup>nd</sup> – 3<sup>rd</sup> Sep, 2018      **Lemanic Neuroscience Annual Meeting (LNAM) 2018, Les Diablerets, CH**  
Poster: “Taking attention back to school: Multisensory processes influence developing visual attention control”
- 30<sup>th</sup> Aug – 1<sup>st</sup> Sep, 2018      **Flux Congress 2018, Berlin, DE**  
Poster: “Taking attention back to school: Multisensory processes influence developing visual attention control”
- 1<sup>st</sup> – 2<sup>nd</sup> Sep, 2017      **Lemanic Neuroscience Annual Meeting (LNAM) 2017, Les Diablerets, CH**  
Presentation of scientific poster: “Semantics in the multisensory brain: Insights from electrical neuroimaging”
- 19<sup>th</sup> – 22<sup>nd</sup> May, 2017      **International Multisensory Research Forum (IMRF) 2017, Nashville, TN, USA**  
Poster: “Semantics in the multisensory brain: Insights from electrical neuroimaging”
- 28<sup>th</sup> Aug – 1<sup>st</sup> Sep, 2016      **European Conference of Visual Perception (ECPV) 2016, Barcelona, ES**  
Poster: “Visual symmetry influences the cross-modal correspondence between visual shape and taste”

## TEACHING

### LECTURES & WORKSHOPS

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- 13<sup>th</sup> Oct, 2021      **Workshop (lecture and practical), “Experimental paradigms made simple (and online) with Psychopy Builder and Pavlovia”, University of Zurich, CH**
- 03<sup>rd</sup> 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**
- 16<sup>th</sup> 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

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- Feb 2021 – present      **Teaching assistant** on Bachelors in Psychology course: “Le développement cognitif de l'enfant”, University of Geneva, CH
- Oct 2020 – Jan 2021      **Second grader** on Bachelors in Psychology course: “Des théories en psychologie du développement cognitif à la pratique”, University of Geneva, CH

## AD-HOC TRAINING

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- Jan 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

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- Feb 2022 – June 2022     **Anae Motz** – research project student, University of Geneva, CH
- Oct 2021 – present     **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 2022     **Elodie Walter** – observation intern (until Dec 2021), Research Assistant (Feb 2022 – June 2022), University of Geneva, CH
- Sep 2021 – present     **Clélia Zahnd** – Research Assistant, University of Geneva, CH

### EXAMINING THESES

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- Sep 2021     **Mégane Marguerat** – Masters in Psychology, University of Geneva, CH (external jury member): “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** – Masters in Psychology, University of Geneva, CH (external jury member): “Le rafraîchissement attentionnel imposé chez les enfants de 6-7 ans et de 10-11 ans”

### PROFESSIONAL MEMBERSHIPS

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- 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     The Swiss Society for Early Childhood Research (SSECR)
- 2018 – ongoing     Flux, the Society for Developmental Cognitive Neuroscience

### REVIEWING

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#### Journals

- Frontiers in Psychology
- Wiley Interdisciplinary Reviews: Cognitive Science
- Multisensory Research
- Psychological Research
- Journal of Cognitive Neuroscience
- Frontiers for Young Minds

#### Grants

Swiss National Science Foundation (SNSF)

### SCIENCE COMMUNICATION AND EDUCATION

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- 21<sup>st</sup> 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 – present **[PRECHECK: A checklist to evaluate COVID-19 preprints](#)**  
Created checklist to help students and journalists critically evaluate preprints. Prepared and taught classes for psychology students and journalists at the University of Geneva on scientific publishing and preprints. Collaborated with the university press office on dedicated news articles.
- 23<sup>rd</sup> Jan, 2020 **MedGIFT writing workshop**  
Collaborated on a blog post hosted on Medium.com entitled '[How to 'crack the code' of the developing brain?](#)'
- 23<sup>rd</sup> – 26<sup>th</sup> 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)
- 15<sup>th</sup> 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](#)'.
- 17<sup>th</sup> – 18<sup>th</sup> 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
- 4<sup>th</sup> – 5<sup>th</sup> 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:* **Tuoman 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).
- 17<sup>th</sup> – 19<sup>th</sup> Nov, 2015 **Food Matters Live, ExCel, London, UK**  
Exhibiting experimental research as part of the [Food Sensorium Attraction](#)
- 18<sup>th</sup> – 23<sup>rd</sup> Aug, 2015 **Soundislands Festival (SI15), Nanyang Technological University and ArtScience Museum, Singapore**  
Interactive live demonstration of [previous research work](#)