

# Simon Gorin

PHD · POSTDOCTORAL RESEARCHER IN PSYCHOLOGICAL SCIENCE

Belgian · 11<sup>th</sup> June 1989

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ℹ Simon\_Gorin | ☎ 0000-0001-7462-0446 | 📄 Google Scholar



## Profile

Good skills learning, adaptation capacities and ability to deal with new challenges

Developed creativity, self-starter and flexible

Interests in team working, energetic and good leadership skills

Problem-solver, methodical and reliable

## Positions

### Postdoctoral Researcher

STELLAR LEARNING GROUP (PROF. N. ROTHEN AND PROF. T. REBER) | SWISS DISTANCE LEARNING INSTITUTE

May. 2020–ongoing

Switzerland

### Postdoctoral Researcher and Teaching Assistant

DEVELOPMENTAL COGNITIVE PSYCHOLOGY RESEARCH UNIT (PROF. P. BARROUILLET) | UNIVERSITY OF GENEVA

Sep. 2017–Jul. 2020

Switzerland

### Lecturer

FACULTY OF SOCIAL AND POLITICAL SCIENCES | UNIVERSITY OF LAUSANNE

Aug. 2019–Jul. 2020

Switzerland

### Research Fellow

PSYCHOLOGY AND NEUROSCIENCE OF COGNITION RESEARCH UNIT (PROF. S. MAJERUS) | UNIVERSITY OF LIÈGE

Jun. 2017–Aug. 2017

Belgium

### Doctoral Researcher

PSYCHOLOGY AND NEUROSCIENCE OF COGNITION RESEARCH UNIT (PROF. S. MAJERUS) | UNIVERSITY OF LIÈGE

Oct. 2012–May 2017

Belgium

## Teaching experience

### Seminar on *Elaboration of a Research Project: Music Cognition*

2019-2020

BACHELOR LEVEL (6 ECTS; 56H) | UNIVERSITY OF LAUSANNE | FACULTY OF SOCIAL AND POLITICAL SCIENCES

- Topics taught: Introduction to the psychology of music, introduction to research in psychological sciences, scientific epistemology, good practices in psychological sciences, elaborating a scientific research question, elaborating a research plan, building of a scientific bibliography

### Digital activities and their development (Main teacher: Prof. P. Barrouillet)

Spring 2019/2020

BACHELOR LEVEL (2019: 10H / 2020: 4H) | UNIVERSITY OF GENEVA | FACULTY OF PSYCHOLOGY AND EDUCATIONAL

SCIENCES

- Topics taught: Numeric cognition in animals, numeric cognition in children, verbal numerical chain, quantification, operations, problem solving, dyscalculia, theories of dyscalculia

## Education

### PhD in Psychology

2012–2017

PSYCHOLOGY AND NEUROSCIENCE OF COGNITION RESEARCH UNIT | FACULTY OF PSYCHOLOGY, SPEECH AND

Belgium

LANGUAGE THERAPY, AND EDUCATION | UNIVERSITY OF LIÈGE

- Thesis title: *Exploration of the cognitive processes underlying musical short-term memory*
- Supervisor: Pr. Steve Majerus

### Master of Science Degree in Psychology

2010–2012

FACULTY OF PSYCHOLOGY, SPEECH AND LANGUAGE THERAPY, AND EDUCATION | UNIVERSITY OF LIÈGE

Belgium

- Thesis title: *Influence of long-term memory and expertise on musical short-term memory*
- Supervisor: Pr. Steve Majerus
- Achievement: *Magna cum laude*

- Achievement: *Cum laude*

## Research interests

### Human memory

Short-term and working memory; memory for speech and music; cross-domains comparisons

### Serial order

Serial order phenomena in speech and music; relationship between serial order and rhythm; domain-general aspects; role of serial order in musical learning

### Musical cognition

Musical perception; musical factors influencing memory for music; relationship between memory capacities for music and singing proficiency; relationship between musical expertise/learning and cognitive abilities

## Grants and awards

|           |   |          |
|-----------|---|----------|
| Jul. 2020 | <b>Study visit grant</b> from the <i>Experimental Psychology Society</i> . The grant will support a 4-week visit to the Department of Psychology at the University of York to work with Dr Tom Hartley on modelling rhythm in serial order short-term memory (planned for January 2021).                    | £ 2700   |
| Dec. 2018 | <b>Reg and Molly Buck Award</b> from the <i>Society for Education, Music and Psychology Research (SEMPRE)</i> to support a post-doctoral research project entitled “Maintenance in musical short-term memory: exploration of the role of sensorimotor processes” (in collaboration with Dr. Emma Greenspon) | £ 2500   |
| Nov. 2018 | <b>Mobility grant</b> from the Swiss Academy of Humanities and Social Sciences for attending the 59 <sup>th</sup> <i>Annual Meeting of the Psychonomic Society</i> , 15–18 November 2018, New-Orleans, LA, USA  | CHF 440  |
| Nov. 2018 | <b>Mobility grant</b> from the Presidency of the Psychology Section of the University of Geneva for attending the 59 <sup>th</sup> <i>Annual Meeting of the Psychonomic Society</i> , 15–18 November 2018, New-Orleans, LA, USA   | CHF 899  |
| Jul. 2018 | <b>Mobility grant</b> from the Presidency of the Psychology Section of the University of Geneva for attending the <i>Fifth European Summer School on Computational and Mathematical Modelling of Cognition</i> , 7–21 July 2018, Couches, France  | CHF 1000 |
| Aug. 2013 | <b>Mobility grant</b> from the Fund for Scientific Research–FNRS (Belgium) for attending the <i>biennial meeting of the Society for Music Perception and Cognition</i> , 8–11 August 2013, Toronto, Canada  | EUR 625  |
| Oct. 2012 | <b>Doctoral Scholarship (4 years grant)</b> funded under a FRESH grant from the Fund for Scientific Research–FNRS   |          |
| Oct. 2012 | <b>Doctoral Scholarship (4 years grant – DECLINED)*</b> funded under a NON-FRIA grant from the University of Liège<br>*The grant has been declined in January 2013 after obtaining another doctoral scholarship from the Fund for Scientific Research–FNRS  |          |
| May 2012  | <b>Best poster award</b> at the <i>first joint international meeting of the Belgian and Spanish societies for psychological sciences (BAPS-SEPEX)</i> , 10–11 May 2012, Liège, Belgium  | EUR 150  |

## Scientific publications

For the manuscripts I am not listed as a first author, my contribution to the research is detailed using the *CRedit* taxonomy (see <https://casrai.org/credit/>).

### Peer-reviewed manuscripts

#### PUBLISHED

- **Gorin, S.**, & Majerus S. (2019). Verbal and musical short-term memory: evidence for shared serial order processes? *Psychologica Belgica*, 59(1), 177–205. 10.5334/pb.426.
- **Gorin, S.**, Mengal, P., & Majerus, S. (2017). Temporal grouping effects in musical short-term memory. *Memory*. 6(6), 831–843. doi: 10.1080/09658211.2017.1414848.
- **Gorin, S.**, Mengal, P., & Majerus, S. (2017). A comparison of serial order short-term memory effects across verbal and musical domains. *Memory & Cognition*, 46(3), 464–481. doi: 10.3758/s13421-017-0778-0.
- **Gorin, S.**, Kowialiewski, B., & Majerus, S. (2016). Domain-generalty of timing based serial order processes in short-term memory: New insights from musical and verbal domains. *PLOS ONE*, 11(12), e0168699. doi: 10.1371/journal.pone.0168699.

#### ACCEPTED FOR PUBLICATION

- **Gorin, S.** (2020, in press). The influence of rhythm on short-term memory for serial order. *Quarterly Journal of Experimental Psychology*.
- Barrouillet, P., **Gorin, S.**, & Camos V. (2020, in revision). Simple spans underestimate verbal working memory capacity. *Journal of Experimental Psychology: General*. [Contribution: formal analysis, investigation, methodology, project administration, software, validation, visualization, writing (original draft)]

### Papers in conference proceedings

- **Gorin, S.**, & Majerus, S. (2015). Common serial order processes in musical and verbal short-term memory: Evidence from novel serial order probe recognition paradigm, In J. Ginsborg, A. Lamont, M. Phillips, & S. Bramley (Eds.), *Proceedings of the Ninth Triennial Conference of the European Society for the Cognitive Sciences of Music*. Manchester, United Kingdom.

### Invited oral presentations

- **Gorin, S.** (2019, December). *Is serial order processing in working memory domain-general? A comparison between musical and verbal domains*. Psycholinguistics lab seminar, University of Geneva, Geneva, Switzerland.
- **Gorin, S.** (2019, July). *On the general laws of serial order in working memory: Ambizione project presentation*. Invited presentation at the Distance Learning University, Brig, Switzerland.

### Oral presentations

- **Gorin, S.** (2020, June). *Temporal grouping effects on short-term memory for tones*. Oral presentation at the Virtual Working Memory Symposium, 1–4 June 2020.
- Greenspon, E., & **Gorin, S.** (2020, March). *The role of subvocalization in pitch short-term memory*. Oral presentation at the Annual Meeting of the Eastern Psychological Association, 12–14 March 2020, Boston, MA, USA.
- **Gorin, S.** (2020, February). *Sequence learning in musical short-term memory: Exploration of the Hebb repetition effect*. Oral presentation at the 3<sup>rd</sup> Swiss Working Memory Meeting, 7 February 2020, Fribourg, Switzerland.
- Barrouillet, P., **Gorin, S.**, & Camos, V. (2019, November). *On the dual structure of verbal working memory*. Oral presentation at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society, 14–17 November 2019, Québec, Canada.
- **Gorin, S.** (2019, September). *Is memory slave to the rhythm? Focus on the role of timing and temporal factors in verbal short-term memory*. Oral presentation at the 21<sup>st</sup> Meeting of the European Society for Cognitive Psychology, 26 September 2019, Tenerife, Spain.
- Barrouillet, P., Camos, V., & **Gorin, S.** (2019, September). *How to make the phonological similarity effect disappear?* Oral presentation at the 21<sup>st</sup> Meeting of the European Society for Cognitive Psychology, 26 September 2019, Tenerife, Spain.
- **Gorin, S.** (2019, March). *The Hebb repetition effect in musical short-term memory for serial order*. Oral presentation at the 2<sup>nd</sup> Swiss Working Memory Meeting, 15 March 2019, Fribourg, Switzerland.
- Barrouillet, P., **Gorin, S.**, & Camos, V. (2018, November). *Miller's Error: Short-Term Memory Spans Do Not Measure One, but Two Capacities*. Oral presentation at the 59<sup>th</sup> Annual Meeting of the Psychonomic Society, 15–18 November 2018, New-Orleans, LA, USA.
- Barrouillet, P., **Gorin, S.**, & Camos, V. (2018, August). *Miller's error: short-term memory spans do not measure the content of a (single) memory store*. Oral presentation at the 9<sup>th</sup> European Working Memory Symposium, Pavia, Italy.
- **Gorin, S.** (2018, July). *Musical short-term memory: Using modeling techniques to explore the nature of serial order representations*. Oral presentation at the 5<sup>th</sup> European Summer School on Computational and Mathematical Modeling of Cognition, Couches, France.
- Kowialiewski, B., **Gorin, S.**, & Majerus, S. (2017, May). *Does semantic knowledge influence serial order processing in short-term memory?* Oral presentation at the annual meeting of the Belgian Association for Psychological Sciences, Brussels, Belgium.
- **Gorin, S.**, Mengal, P., & Majerus, S. (2016, September). *Short-term memory for serial order in musical and verbal domains: Comparison between musicians and nonmusicians*. Oral presentation at the 8<sup>th</sup> European Working Memory Symposium, Liège, Belgium.
- **Gorin, S.**, & Majerus, S. (2015, August). *Common serial order processes in musical and verbal short-term memory: Evidence from a novel serial order probe recognition paradigm*. Oral presentation at the 9<sup>th</sup> triennial conference of the European Society for the Cognitive Sciences of Music, Manchester, United Kingdom.

- **Gorin, S.**, Kowialiewski, B., Céspedes Ortiz, C., & Majerus, S. (2015, August). *Serial temporal order information in musical and verbal short-term memory*. Oral presentation at the biennial meeting of the Society for Music Perception and Cognition, Nashville, TN.
- **Gorin, S.**, & Majerus, S. (2014, May). *Domain generality of serial order in short-term memory: Evidence from musical and verbal domains*. Oral presentation at the annual meeting of the Belgian Association for Psychological Sciences, Leuven, Belgium.

### Poster presentations

- **Gorin, S.** (2018, November). *Is serial order reconstruction of tone sequences influenced by rhythmic grouping?* Poster presented at the 59<sup>th</sup> Annual Meeting of the Psychonomic Society, New-Orleans, LA, USA.
- **Gorin, S.** (2018, August). *The influence of temporal grouping on serial reconstruction of tone sequences*. Poster presented at the 9<sup>th</sup> European Working Memory Symposium, Pavia, Italy.
- Kowialiewski, B., **Gorin, S.**, & Majerus, S. (2018, August). *Effects of semantic and temporal grouping on serial order processing*. Poster presented at the 9<sup>th</sup> European Working Memory Symposium, Pavia, Italy.
- **Gorin, S.** (2018, July). *On the nature of serial order mechanisms in musical short-term memory*. Poster presented at the 5<sup>th</sup> European Summer School on Computational and Mathematical Modeling of Cognition, Couches, France.
- Diongzon, V.-D., & **Gorin, S.** (2018, June). *Is temporal grouping beneficial for musical short-term memory for serial order?* Poster presented at the 3<sup>rd</sup> Jean Piaget conference: The origin of numbers, Geneva, Switzerland.
- Kowialiewski, B., **Gorin, S.**, & Majerus, S. (2017, September). *Semantic similarity finally interacts with serial order processing in short-term memory*. Poster presented at the 20<sup>th</sup> conference of the European Society for Cognitive Psychology, Potsdam, Germany.
- Kowialiewski, B., **Gorin, S.**, & Majerus, S. (2017, April). *La similarité sémantique influence-t-elle le traitement de l'ordre en mémoire à court terme?* Poster presented at the École Thématique TRANSMEM, Hyères, France.
- Kowialieski, B., **Gorin, S.**, & Majerus, S. (2015, May). *Can item and serial order short-term memory components be distinguished in the musical short-term memory domain?* Poster presented at the annual meeting of the Belgian Association for Psychological Sciences, Brussels, Belgium.
- **Gorin, S.**, & Majerus, S. (2014, December). *Interaction between long-term memory and short-term memory: New evidence from the musical domain*. Poster presented at the EPOS working memory workshop, Amsterdam, The Netherlands.
- **Gorin, S.**, & Majerus, S. (2013, August). *Interactions with musical long-term memory are a critical component for musical working memory*. Poster presented at the biennial meeting of the Society for Music Perception and Cognition, Toronto, Canada.
- **Gorin, S.**, & Majerus, S. (2013, May). *Interaction between short-term and long-term memory in the musical domain: The impact of musical knowledge and musical expertise*. Poster presented at the annual meeting of the Belgian Association for Psychological Sciences, Louvain-La-Neuve, Belgium.
- **Gorin, S.**, & Majerus, S. (2012, September). *Implicit musical sequence learning and short-term memory: Further evidence for the universality of long-term memory mechanisms in short-term memory*. Poster presented at the Lifespan Perspectives on Implicit and Explicit Learning Symposium, Brussels, Belgium.
- **Gorin, S.**, & Majerus, S. (2012, May). *The impact of implicit musical sequence learning on short-term memory for music*. Poster presented at the joint international meeting of the Belgian and Spanish societies for psychological sciences (BAPS-SEPEX), Liège, Belgium.

## Reviewing activities

**Ad hoc reviewer for** Experimental Psychology (2×)  
 Journal of Experimental Psychology: Learning, Memory, and Cognition (5×)  
 PLOS ONE (1×)  
 Psychonomic Bulletin and Review (1×)

 [Publons profile](#)

## Research supervision

### Research assistant

- **L. Monnet** (master student) | University of Geneva Apr.–May. 2019  
 Worked on a project entitled “Maintenance in musical short-term memory: exploration of the role of sensori-motor processes”  
 Funded by a *Reg and Molly Buck Award* from the *Society for Education, Music and Psychology Research*
- **I. Jacot** (master student) | University of Geneva Apr.–May. 2019  
 Worked on a project entitled “Maintenance in musical short-term memory: exploration of the role of sensori-motor processes”  
 Funded by a *Reg and Molly Buck Award* from the *Society for Education, Music and Psychology Research*

## Master thesis

- **A. Grillet** | University of Geneva (Switzerland)  
Thesis topic: The Hebb repetition effect in musical short-term memory for serial order  
Co-supervised with Prof. Pierre Barrouillet

2018–ongoing
- **C. Sequeira Pinto** | University of Geneva (Switzerland)  
Thesis topic: The influence of rhythmic variations of processing episodes on working memory capacities  
Co-supervised with Prof. Pierre Barrouillet

2018–ongoing
- **S. Akaoglu** | University of Geneva (Switzerland)  
Thesis topic: Temporal grouping effects in serial order reconstruction for tone sequences  
Co-supervised with Prof. Pierre Barrouillet

2018–2019
- **V.-D. Diongzon** | University of Geneva (Switzerland)  
Thesis topic: Temporal grouping effects in serial order reconstruction for tone sequences capacities  
Co-supervised with Prof. Pierre Barrouillet

2017–2018
- **P. Mengal** | University of Liège (Belgium)  
Thesis topic: The effect of temporal grouping in serial order short-term memory for music  
Co-supervised with Prof. Steve Majerus

2015–2016
- **S. Foveau** | University of Liège (Belgium)  
Thesis topic: Musical short-term memory and implicit learning in eight years old children  
Co-supervised with Prof. Steve Majerus

2012–2013

## Master research internship

- **C. Céspedes Ortiz** | University of Liège (Belgium)  
Topic: The influence of pitch proximity on musical short-term memory for item and serial order information: Part 2  
Co-supervised with Prof. Steve Majerus

2015–2016
- **C. Céspedes Ortiz** | University of Liège (Belgium)  
Topic: The influence of pitch proximity on musical short-term memory for item and serial order information: Part 1  
Co-supervised with Prof. Steve Majerus

2014–2015
- **B. Kowialiewski** | University of Liège (Belgium)  
Topic: Comparison of interfering effects on short-term memory for item and serial order information between verbal and musical domains  
Co-supervised with Prof. Steve Majerus

2013–2014

## Bachelor research project

- The effect of rhythmic priming on verbal serial order short-term memory (1 student, co-supervised with Prof. Pierre Barrouillet, University of Geneva, Switzerland)

2018–2019
- Interactions between temporal and semantic grouping effects in verbal short-term memory for serial order (2 students, co-supervised with Prof. Steve Majerus and B. Kowialiewski, University of Liège, Belgium)

2016–2017
- Comparison of serial order recall processes in the musical and the verbal domains (4 students, co-supervised with Prof. Steve Majerus, University of Liège, Belgium)

2015–2016
- Comparison of the cognitive processes involved in musical and verbal short-term memory: Part 2 (5 students, co-supervised with Prof. Steve Majerus, University of Liège, Belgium)

2015–2016
- Interfering effects on short-term memory for item and serial order information in verbal and musical domains (1 student, co-supervised with Prof. Steve Majerus, University of Liège, Belgium)

2014–2015
- Comparison of the cognitive processes involved in musical and verbal short-term memory: Part 1 (4 students, co-supervised with Prof. Steve Majerus, University of Liège, Belgium)

2013–2014

## Master thesis jury member

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**Marquis, A.,** (2016). *L'agressivité et l'exposition à un contenu violent dans les jeux vidéo chez les adolescents*, Master thesis in clinical psychology. Faculty of Psychology, Speech and Language Therapy, and Education, University of Liège, Belgium.

**Boulonnais, É.,** (2015). *Effet de la métrique sur la justesse vocale et son évaluation*, Master thesis in speech and language therapy. Faculty of Psychology, Speech and Language Therapy, and Education, University of Liège, Belgium.

**Hennes, E.,** (2015). *Perception de la justesse mélodique en contexte musical*, Master thesis in speech and language therapy. Faculty of Psychology, Speech and Language Therapy, and Education, University of Liège, Belgium.

**Zuba, I.,** (2015). *Définition de la justesse en contexte mélodique*, Master thesis in speech and language therapy. Faculty of Psychology, Speech and Language Therapy, and Education, University of Liège, Belgium.

## Committees in scientific conferences

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- 2019 **Organizer** of a symposium entitled “Is memory slave to the rhythm? Focus on the role of timing and temporal factors in verbal short-term memory”, hold during the 21<sup>st</sup> conference of the European Society for Cognitive Psychology (ESCP), 25–28 September *Tenerife, Spain*
- 2018 **Organizing committee** for the 3<sup>rd</sup> Jean Piaget Conferences “The origin of number”, 28–29 June *Geneva, Switzerland*
- 2016 **Organizing committee** for the 8<sup>th</sup> European Working Memory Symposium (EWOMS 8) on Cognitive and Neural models of Working Memory, 31 August–2 September *Liège, Belgium*

## Academic responsibilities

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- May. 2020 **Commission member** for the nomination of Prof. Nary Golestani to the position of Associate Professor, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland
- Since Nov. **Secretary** of the *Association of teaching and research collaborators in psychology*, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland
- Apr. 2019 **Delegation member** for the nomination to the position of Professor in Clinical and Handicap Psychology, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland
- Oct. 2018 **Commission member** for the regularization of Dr. Tobias Brosch to the position of Associate Professor, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland

## Skills

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|-------------------|---|
| <b>Modeling</b>   | Mathematical and computational modeling (elementary skills)   |
| <b>R</b>          | Data computing and processing (intermediate skills)<br>Frequentist and Bayesian statistical analyses (intermediate skills)<br>Programming (elementary skills) |
| <b>Statistica</b> | Frequentist statistical analyses (advanced skills)  |
| <b>JASP</b>       | Frequentist and Bayesian statistical analyses (advanced skills)   |
| <b>Python</b>     | Programming (elementary skills)   |
| <b>Opensesame</b> | Experiment presentation software (advanced skills)  |
| <b>LaTeX</b>      | High-quality typesetting software (intermediate skills)   |
| <b>Audacity</b>   | Sound processing and edition (intermediate skills)  |
| <b>Praat</b>      | Sound processing and analysis (elementary skills)   |
| <b>Excel</b>      | Data computing and processing (advanced skills)   |
| <b>Languages</b>  | French and english  |