

Simon Gorin

PHD · POSTDOCTORAL RESEARCHER IN PSYCHOLOGICAL SCIENCE

Belgian · 11th June 1989

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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 and Teaching Assistant

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

Sep. 2017–ongoing
Switzerland

Lecturer

FACULTY OF SOCIAL AND POLITICAL SCIENCES | UNIVERSITY OF LAUSANNE

Aug. 2019–ongoing
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: 8H) | 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

Belgium

PSYCHOLOGY AND NEUROSCIENCE OF COGNITION RESEARCH UNIT | FACULTY OF PSYCHOLOGY, SPEECH AND
LANGUAGE THERAPY, AND EDUCATION | UNIVERSITY OF LIÈGE

Oct. 2012–Jun. 2017

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

Master of Science Degree in Psychology

Belgium

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

Sep. 2010–Aug. 2012

- 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

Dec. 2018	Reg and Molly Buck Award from the Society for Education, Music and Psychology Research (SEMPRE) 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	Mobility grant from the Swiss Academy of Humanities and Social Sciences for attending the 59 th Annual Meeting of the Psychonomic Society, 15–18 November 2018, New-Orleans, LA, USA	CHF 440
Nov. 2018	Mobility grant from the Presidency of the Psychology Section of the University of Geneva for attending the 59 th Annual Meeting of the Psychonomic Society, 15–18 November 2018, New-Orleans, LA, USA	CHF 899
Jul. 2018	Mobility grant from the Presidency of the Psychology Section of the University of Geneva for attending the Fifth European Summer School on Computational and Mathematical Modelling of Cognition, 7–21 July 2018, Couches, France	CHF 1000
Aug. 2013	Mobility grant from the Fund for Scientific Research–FNRS (Belgium) for attending the biennial meeting of the Society for Music Perception and Cognition, 8–11 August 2013, Toronto, Canada	EUR 625
Oct. 2012	Doctoral Scholarship (4 years grant) funded under a FRESH grant from the Fund for Scientific Research–FNRS	
Oct. 2012	Doctoral Scholarship (4 years grant – DECLINED)* funded under a NON-FRIA grant from the University of Liège *The grant has been declined in January 2013 after obtaining another doctoral scholarship from the Fund for Scientific Research–FNRS	
May 2012	Best poster award at the first joint international meeting of the Belgian and Spanish societies for psychological sciences (BAPS-SEPEX), 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.**, Kowaliewski, 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.

PRE-REGISTERED STUDIES

- **Gorin, S.**, (2019). The influence of rhythm on short-term memory for serial order. *Quarterly Journal of Experimental Psychology*. Stage 1 Registered Report, date of in-principle acceptance: 22/04/2019. <https://osf.io/s3tvh>

SUBMITTED

- Barrouillet, P., **Gorin, S.**, & Camos V. (Submitted). Simple spans underestimate verbal working memory capacity. [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, February). *Sequence learning in musical short-term memory: Exploration of the Hebb repetition effect*. Oral presentation at the 3rd Swiss Working Memory Meeting, 7 February 2020, Fribourg, Switzerland.
- **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 21st 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 2nd Swiss Working Memory Meeting, 15 March 2019, Fribourg, Switzerland.
- Barrouillet, P., **Gorin, S.**, & Camos, V. (2018, August). *Miller's Error: Short-Term Memory Spans Do Not Measure One, but Two Capacities*. Oral presentation at the 59th 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 9th 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 5th 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 8th 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 9th 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 59th 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 9th 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 9th 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 5th 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 3rd 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 20th 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×)

 [Publons profile](#)

Journal of Experimental Psychology: Learning, Memory, and Cognition (4×)

PLOS ONE (1×)

Research supervision

Research assistant

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

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

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

- 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”, to be held during the 21st conference of the European Society for Cognitive Psychology (ESCoP), 25–28 September Tenerife, Spain
- 2018 **Organizing committee** for the 3rd Jean Piaget Conferences “The origin of number”, 28–29 June Geneva, Switzerland
- 2016 **Organizing committee** for the 8th European Working Memory Symposium (EWOMS 8) on Cognitive and Neural models of Working Memory, 31 August–2 September Liège, Belgium

Academic responsibilities

Since Nov. **Secretary** of the Association of teaching and research collaborators in psychology, Faculty of
2019 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

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