

# Simon Gorin

PHD · POSTDOCTORAL RESEARCHER IN PSYCHOLOGICAL SCIENCE

Belgian · 11<sup>th</sup> June 1989

Überlandstrasse 12, 3900 Brig, Switzerland (Office)

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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 UNIVERSITY INSTITUTE

May. 2020–ongoing

Switzerland

### Lecturer

FACULTY OF SOCIAL AND POLITICAL SCIENCES | UNIVERSITY OF LAUSANNE

Aug. 2019–ongoing

Switzerland

### Postdoctoral Researcher and Teaching Assistant

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

Sep. 2017–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*

2019–20/2020–21

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

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	
	*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 first <i>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

- Barrouillet, P., **Gorin, S.**, & Camos V. (2020, in revision). Simple spans underestimate verbal working memory capacity. *Journal of Experimental Psychology: General*. <https://doi.org/10.1037/xge0000957> [Contribution: formal analysis, investigation, methodology, project administration, software, validation, visualization, writing (original draft)]
- **Gorin, S.** (2020). The influence of rhythm on short-term memory for serial order. *Quarterly Journal of Experimental Psychology*. <https://doi.org/10.1177/1747021820941358>
- **Gorin, S.**, & Majerus S. (2019). Verbal and musical short-term memory: evidence for shared serial order processes? *Psychologica Belgica*, 59(1), 177–205. <https://doi.org/10.5334/pb.426>

- **Gorin, S.**, Mengal, P., & Majerus, S. (2017). Temporal grouping effects in musical short-term memory. *Memory*. 6(6), 831–843. <https://doi.org/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. <https://doi.org/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. <https://doi.org/10.1371/journal.pone.0168699>

#### IN-PRINCIPLE ACCEPTANCE OF REGISTERED REPORTS

- Elliott, E., Bell, R., **Gorin, S.**, Robinson, N., & Marsh, J. (2020). Stage 1 Registered Report: Can the irrelevant sound effect be studied online? A comparison between web- and laboratory-based experimentation. *Journal of Cognitive Psychology [Contribution: data curation, methodology, software, writing - original draft (methods)]*

#### 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.

#### PRE-PRINT (NOT PEER-REVIEWED)

- **Gorin, S.** (2020, September 29). Temporal grouping effects in tone sequence reconstruction: testing domain-general positional theories of serial order. <https://doi.org/10.31234/osf.io/mfynu>.
- Mihaylova, M., **Gorin, S.**, Reber, T. P., & Rothen, N. (2020, August 13). A Meta-Analysis on Mobile Assisted Language Learning Applications Reveals Moderate Learning Benefit and Significant Publication Bias. <https://doi.org/10.31219/osf.io/ux93y>. [Contribution: methodology, software, data curation, validation]

#### SUBMITTED

- Kowialiewski, B., **Gorin, S.**, & Majerus, S. (2020). Semantic knowledge constrains the processing of serial order information in working memory. [Contribution: conceptualization, methodology, validation, writing - review & editing]

#### 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.**, & Greenspon, E. (2020, September). *Short-term memory for music: the role of the vocal motor system?*. Virtual poster presentation at the 10<sup>th</sup> European Working Memory Symposium.
- **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., & Greenspon, E.** (2020, September). *Short-term memory for music: the role of the vocal motor system?* Virtual poster presented at the 10<sup>th</sup> European Working Memory Symposium.
- **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 Cognitive Psychology (1×)  
 Journal of Experimental Psychology: Learning, Memory, and Cognition (5×)  
 PLOS ONE (1×)  
 Psychonomic Bulletin and Review (2×)

 [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) 2018–ongoing  
Thesis topic: The Hebb repetition effect in musical short-term memory for serial order  
Co-supervised with Prof. Pierre Barrouillet
- **C. Sequeira Pinto** | University of Geneva (Switzerland) 2018–ongoing  
Thesis topic: The influence of rhythmic variations of processing episodes on working memory capacities  
Co-supervised with Prof. Pierre Barrouillet
- **S. Akaoglu** | University of Geneva (Switzerland) 2018–2019  
Thesis topic: Temporal grouping effects in serial order reconstruction for tone sequences  
Co-supervised with Prof. Pierre Barrouillet
- **V.-D. Diongzon** | University of Geneva (Switzerland) 2017–2018  
Thesis topic: Temporal grouping effects in serial order reconstruction for tone sequences capacities  
Co-supervised with Prof. Pierre Barrouillet
- **P. Mengal** | University of Liège (Belgium) 2015–2016  
Thesis topic: The effect of temporal grouping in serial order short-term memory for music  
Co-supervised with Prof. Steve Majerus
- **S. Foveau** | University of Liège (Belgium) 2012–2013  
Thesis topic: Musical short-term memory and implicit learning in eight years old children  
Co-supervised with Prof. Steve Majerus

## Master research internship

- **C. Céspedes Ortiz** | University of Liège (Belgium) 2015–2016  
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
- **C. Céspedes Ortiz** | University of Liège (Belgium) 2014–2015  
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
- **B. Kowialiewski** | University of Liège (Belgium) 2013–2014  
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

## 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 | <b>Organizer</b> 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 | <b>Organizing committee</b> for the 3 <sup>rd</sup> Jean Piaget Conferences “The origin of number”, 28–29 June   | Geneva, Switzerland |
| 2016 | <b>Organizing committee</b> 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
- Nov. 2019 **Secretary** of the *Association of teaching and research collaborators in psychology*, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland
- Jul. 2020 **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) Frequentist and Bayesian statistical analyses (intermediate skills) 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>Languages</b>	French and english