

## Thomas WOLF

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### PROFESSIONAL APPOINTMENTS & EDUCATION

|             |   |
|-------------|---|
| since 2020  | Postdoctoral Researcher at the Cognitive Science Department at CEU, Vienna, Austria   |
| 2019-2020   | Postdoctoral Researcher at the Cognitive Science Department at CEU, Budapest, Hungary   |
| 2018        | Visiting Researcher at IRCAM/CNRS/Sorbonne Université, Paris, France, working with: Clément Canonne and Jean-Julien Aucouturier   |
| since 2015  | Responsible for establishing and directing the Somby MusicLab at the Cognitive Science Department at CEU  |
| 2014 - 2019 | PhD awarded on the 5th of June, 2019 - Thesis Title: <i>Joint Music-Making and Temporal Coordination in Joint Action</i> . Department of Science at CEU, Budapest, Hungary. Supervised by Günther Knoblich and Natalie Sebanz |
| 2013        | Research Internship at the Haidlhof Research Facility, Department of Cognitive Biology, University of Vienna, Austria<br>Supervised by: Jorg Massen and Thomas Bugnyar  |
| 2012 - 2014 | M.Sc. awarded in October, 2014<br>Middle European Interdisciplinary Master Program in Cognitive Science at the University of Vienna   |
| 2011 - 2012 | Fellow at the program for Phenomenology and Philosophy of Mind at the University of Copenhagen, Denmark   |
| 2006 - 2011 | Mag.phil. awarded in July, 2011<br>Institute for Musicology at the University of Vienna, Austria<br>Major Subject: Musicology / Minor Subject: Philosophy   |

### GRANTS, FELLOWSHIPS & AWARDS

|      |  |
|------|--|
| 2024 | Vienna Cognitive Science Hub Seed Grant, 7.500 € |
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| 2022        | ERC Proof of Concept Grant “Training Alone to Play Together App (TAPTAPP)”, applied with Natalie Sebanz, 150.000 € |
| 2019        | Award for Advanced Doctoral Students, CEU, 800 €   |
| 2018        | Doctoral Research Support Grant, CEU, 3.870 €  |
| 2016 - 2018 | CEU Travel Grants, amounting to 1.349 €  |
| 2014 - 2017 | Full CEU Doctoral Fellowship for the academic years 2014 – 2017, per annum 21.573 €                                |
| 2014        | ERASMUS Stipend, European Union, 1.572 €   |
| 2014        | Academic Excellence Scholarship, University of Vienna, 767 €   |
| 2013        | Academic Excellence Scholarship, University of Vienna, 745 €   |
| 2012        | Danish Government Scholarship under the Cultural Agreements, 55.000 kr. (7.400 €)                                  |

## PEER-REVIEWED PUBLICATIONS

Wolf, T., Novák, T. & Knoblich, G. (2023). Videos posted on the internet provide evidence for joint rushing in naturalistic social interactions. *Scientific Reports*, 13, 10584. <https://doi.org/10.1038/s41598-023-37247-1>

Wolf, T., Goupil, L., & Canonne, C. (2023). Beyond togetherness: interactional dissensus fosters creativity and tension in freely improvised musical duos. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. <https://doi.org/10.1037/aca0000588>

Curioni, A., Voinov, P., Allritz, M., Wolf, T., Call, J., & Knoblich, G. (2022). Human adults prefer to cooperate even when it is costly. *Proceedings of the Royal Society B*, 289(1973). <https://doi.org/10.1098/rspb.2022.0128>

Wolf, T., & Knoblich, G. (2022). Joint rushing alters internal timekeeping in non-musicians and musicians. *Scientific Reports*, 12(1), 1190. <https://doi.org/10.1038/s41598-022-05298-5>

Goupil, L., Wolf, T., Saint-Germier, P., Aucouturier, J.-J., & Canonne, C. (2021). Emergent Shared Intentions Support Coordination During Collective Musical Improvisations. *Cognitive Science*, 45: e12932. <https://doi.org/10.1111/cogs.12932>

Miton, H., Wolf, T., Vesper, C., Knoblich, G., & Sperber, D. (2020). Motor constraints influence cultural evolution of rhythm. *Proceedings of the Royal Society B*, 287(1937). <https://doi.org/10.1098/rspb.2020.2001>

Simonsen, A., Fuglsang-Bliksted, V., Wolf, T., Michael, J., Fusaroli, R., Roepstorff, A., & Frith, C. (2020). Distinguishing oneself from others: Spontaneous Perspective-Taking in First

Episode Schizophrenia and its relation to Mentalizing and Psychotic Symptoms. *Schizophrenia Bulletin*, <https://doi.org/10.1093/schizbullopen/sgaa053>

Wolf, T., Sebanz, N., & Knoblich, G. (2020). Adaptation to Unstable Coordination Patterns in Individual and Joint Actions. *PLoS ONE*, 15(5), e0232667. <https://doi.org/10.1371/journal.pone.0232667>

Wolf, T., Vesper, C., Sebanz, N., Keller, P. E., & Knoblich, G. (2019). Combining Phase Advancement and Period Correction Explains Rushing during Joint Rhythmic Activities. *Scientific Reports*, 9(1), 9350. <https://doi.org/10.1038/s41598-019-45601-5>

Wolf, T., Sebanz, N., & Knoblich, G. (2018). Joint Action coordination in expert-novice pairs: Can experts predict novices' suboptimal timing? *Cognition*, 178, 103-108. <https://doi.org/10.1016/j.cognition.2018.05.012>

Michael, J., Wolf, T., Letesson, C., Butterfill, S., Skewes, J., & Hohwy, J. (2018). Seeing it both ways: Using a double-cuing task to investigate the role of spatial cuing in Level-1 visual perspective-taking. *Journal of Experimental Psychology: Human Perception and Performance*, 44(5), 693. <http://dx.doi.org/10.1037/xhp0000486>

Michael, J., & Wolf, T. (2014). Why Apply a Hierarchical Predictive Processing Framework to Music Perception and Performance?. *Empirical Musicology Review*, 9(3/4), 177. <http://dx.doi.org/10.18061/emr.v9i3-4.4613>

Michael, J., Sandberg, K., Skewes, J., Wolf, T., Blicher, J., Overgaard, M., & Frith, C. (2014). Unconvincing statistical and functional inferences: reply to Catmur. *Frontiers in Human Neuroscience*, 8, 887. <https://doi.org/10.3389/fnhum.2014.00887>

Michael, J., Sandberg, K., Skewes, J., Wolf, T., Blicher, J., Overgaard, M., & Frith, C. D. (2014). Continuous theta-burst stimulation demonstrates a causal role of premotor homunculus in action understanding. *Psychological Science*, 25(4), 963-972. <https://doi.org/10.1177/0956797613520608>

## EDITORIALS

Robrecht P.R.D. van der Wel, Becchio, C., Curioni, A. & Wolf, T. (2021). Understanding joint action: Current theoretical and empirical approaches. *Acta Psychologica*, 215, <https://doi.org/10.1016/j.actpsy.2021.103285>

## PRE-PRINTS

Michael, J., Liang, Y., Wolf, T., Török, G., & Székely, M. (2019). Comparing effort perception in individual and joint action contexts. *PsyArXiv Preprints*. <http://doi.org/10.31234/osf.io/zpjtv>

## **EDITING & PEER REVIEW**

Guest Editor of *Acta Psychologica*. Special Issue: *Current Issues in Joint Action Research*. Edited together with Rob van der Wel, Ariana Curioni and Christina Becchio (2020).

Reviewer for Journals such as *Cognitive Science*, *Consciousness and Cognition*, *Frontiers in Psychology*, *iScience*, *Journal of Cognition*, *Music Perception*, *Musicae Scientiae*, *Open Mind: Discoveries in Cognitive Science*, *Phenomenology and Cognitive Sciences*, *Psychology of Music*, *Ethical Theory and Moral Practice*, *Psychonomic Bulletin & Review* and *Scientific Reports*

## **ORGANIZATION OF SCIENTIFIC MEETINGS**

|            |   |
|------------|---|
| since 2023 | Regular Meetings of the Vienna Music Cognition Reading Club at various research institutes in Vienna. Organized with Anja-Xiaoxing Cui.   |
| 2019       | Conference Organizer: 8th Joint Action Meeting - Genova, Italy. Organized with Christina Becchio, Antonio Camurri, Andrea Cavallo, Arianna Curioni, Günther Knoblich & Natalie Sebanz |

## **TEACHING EXPERIENCE**

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|-------------|--|
| 2023        | Invited workshop at the Interdisciplinary College 2023 “Joint action, interpersonal coordination, and coordination devices such as work songs”, 3 lectures of 90 minutes each, in Günne, Germany |
| 2020 & 2017 | Workshop “Max for Cognitive Scientists”, at CEU, Vienna, Austria   |
| 2019 & 2018 | Workshop “R for Interested Beginners”, at CEU, Budapest, Hungary   |
| 2017        | “What Can Music Tell Us About Social Cognition?” as part of the course “Social Cognition” at the Budapest University of Technology and Economics (BME), Budapest, Hungary                        |
| 2013 - 2014 | “Tools in Cognitive Science I: Introduction to Programming for Cognitive Scientists”, Tutor, University of Vienna, Austria   |

## **PUBLIC ENGAGEMENT & MEDIA COVERAGE**

2024

February “Milesdavisquintetorchestra!” a project including a concert, a documentary and a scientific presentation at the *sons d’hiver* festival in Paris:  
<https://www.sonsdhiver.org/milesdavisquintetorchestra/>  
Documentary: <https://laplateforme-sonsdhiver.org/dphase-documentaire/>  
(Trailer: <https://www.youtube.com/watch?v=XJktiiu1PnQ>)

2022

May “Why do we rush in social interactions and what does it have to do with fireflies and sea shanties?”, an interactive installation as part of the *Lange Nacht der Forschung* in Austria. Estimated reach: > 200 visitors.  
<https://langenachtderforschung.at/station/1683>

April Parts of the musical output of my research in collaboration with Clément Canonne was published on the CD “Improvisation in the Lab” by Ephemeral Collectives, together with an elaborate booklet describing the research:  
[ephemeralcollectives.bandcamp.com/album/improvisation-in-the-lab](https://ephemeralcollectives.bandcamp.com/album/improvisation-in-the-lab)

February Media coverage of the funding of the project “TAPTAPP - Training alone to play together - App”. <https://science.orf.at/stories/3211628/>  
Radio interview about the project “TAPTAPP”. Broadcasted on Ö1 on February 22nd. <https://oe1.orf.at/player/20220222/669262/1645534500000>

2018

January - February “Das Tanztheremin”, an interactive installation on the topic of Joint Foraging, as part of the *art IN academia* conference and exhibition at the Centrális Gallery, Open Society Archives, Budapest.  
Estimated reach: several hundred visitors.  
<https://philosophy.ceu.edu/events/2018-01-18/art-academia>

2017

November “Together in pink”, an interactive movement game for two players displayed at CEU, Budapest on a monitor facing the pedestrian zone in Zrínyi street.

April “How do we sound together?”, a science project / art installation at the TATE Modern, London, in collaboration with the School of Advanced Study at University of London. Estimated reach: > 2000 visitors.  
<https://philosophy.sas.ac.uk/events/event/8098>

## CONFERENCE PRESENTATIONS

2023

August "How do work songs stabilize the tempo of rhythmic joint actions?",  
Presentation at the ICMPC17-APSOM7, Tokyo, Japan

July "How do work songs stabilize the tempo of rhythmic joint actions?",  
Presentation at the 9th Joint Action Meeting, Budapest, Hungary

March "How do work songs stabilize the tempo of rhythmic joint actions?", Invited  
guest talk at the Center for Music in the Brain (MIB) at Aarhus University,  
Aarhus, Denmark

2022

July "Joint rushing in rhythmic real-world interactions", Presentation at the  
Musical Togetherness Symposium (MTS-22)

2021

July "Joint rushing depends on continuous input from co-performers",  
Presentation at ICMPC16-ESCOM11, worldwide/online

June "The Role of Period Correction and Continuous Input from a Co-Performer  
in Joint Rushing", Presentation at the Rhythm Production and Perception  
Workshop 2021, Oslo, Norway

2019

July "The Bug Within - Why do people rush during rhythmic interactions?",  
Presentation at JAM8 2019, Genoa, Italy

March "The Bug Within - Why do people rush during rhythmic interactions?",  
Presentation at the ICPS 2019, Paris, France

2018

October "What can Music Making teach us about Joint Actions?", Presentation at a  
Séminaire invité | recherche et technologie at IRCAM, Paris, France

2017

June "From Expert Model to Novice Performance - Can Experts Adapt to  
Novices' Faulty Timing in Joint Music Performance?", Presentation at the  
Music, Language and Cognition Summer School 2017, Como, Italy

2016

September "How do Experts Adapt to Novices in Joint Music Performance?",  
Presentation at the Making Time in Music Conference, University of Oxford,  
England

2015

June "Joint Action, Music and Interpersonal Coordination", Alumni Keynote  
Presentation at the MEi:CogSci Conference 2015, Ljubljana, Slovenia

## WORK EXPERIENCE

- 2008 - Present      Musician and Actor at *SOG.Theater, Zentrum für Theaterpädagogik und strategische Inszenierung*, Wr. Neustadt – [www.sog-theater.com](http://www.sog-theater.com)
- 2013 - 2014      Tutor at *University of Vienna*, Vienna (September 2013 - February 2014)
- 2010 - 2012      Production Assistant at *KAIROS Music Production*, [www.kairos-music.com](http://www.kairos-music.com)

## PROGRAMMING SKILLS

- advanced            R, Max MSP/Jitter
- intermediate        Python
- proficient           MATLAB