

## I. PERSONAL INFORMATION

### DANIEL LIU BOWLING, PHD

Instructor of Psychiatry and Behavioral Sciences  
Stanford School of Medicine.

[dbowling@stanford.edu](mailto:dbowling@stanford.edu) • 1-650-505-3207

3165 Porter Drive, Room 1002B, Palo Alto, CA, 94304

## II. EDUCATIONAL BACKGROUND

<b>Translation Medicine, Certificate.</b> Eureka Institute	02/2019
<b>Neurobiology, Ph.D.</b> Duke University Advisor: Prof. Dale Purves	05/2012
<b>Cognitive Neuroscience, Certificate.</b> Duke University	05/2008
<b>Biological Psychology, B.S. (<i>Summa Cum Laude</i>)</b> University of California at San Diego	06/2006
<b>Neuro-Philosophy, B.A. (<i>Summa Cum Laude</i>)</b> University of California at San Diego Advisor: Prof. Patricia Churchland	06/2006

## III. PROFESSIONAL APPOINTMENTS

<b>Instructor</b> Department of Psychiatry and Behavioral Sciences Stanford University, School of Medicine. Faculty Mentor: Prof. Karen Parker	12/2018– Present
<b>Lisa Meitner Research Fellow</b> Department of Cognitive Biology. Faculty of Life Sciences, University of Vienna, Austria	04/2015– 10/2018
<b>Postdoctoral Researcher</b> Department of Cognitive Biology, Faculty of Life Sciences Faculty of Life Sciences, University of Vienna, Austria Adviser: Prof. Tecumseh Fitch	07/2012– 03/2015

## IV. HONORS & AWARDS

**Tuition Award.** *MCHRI-Eureka Certificate Course in Translational Medicine.* Asilomar, CA. (2020)

**Young Investigator Award.** *Faculty of Life Sciences, University of Vienna.* Vienna, Austria. (2016)

**Travel Award.** *Cold Spring Harbor Laboratory.* New York, NY. (2016)

**Innovation Award.** For “A Distinct Role of the Temporal-Parietal Junction in Predicting Socially Guided Decisions.” *Social and Affective Neuroscience Society.* Website: <https://socialaffectiveneuro.org>.

**Best Talk.** For “Synchrony and Temporal Regularity in Human Vocalization.” *Syntax of the Mind International Conference.* Vienna, Austria. (2014).

**Best Poster.** For “Emotional Expression in Music Mirrors Vocalization.” *Neuroscience and Behavioral Disorders Annual Retreat.* Singapore. (2010).

**Summa Cum Laude.** For GPA 3.890. Latin Honors at UCSD. San Diego, CA. (2006).

**Coaches Award.** For varsity boys soccer. Henry M. Gunn High School. Palo Alto, CA. (2002).

**Multiple 1<sup>st</sup> and 2<sup>nd</sup> place finishes in Piano and Speech Arts Competitions.** Calgary Performing Arts Festivals. Calgary, AB. (1991-1998).

## V. SCHOLARLY PUBLICATIONS

Annotations \* = corresponding; † = co-first author; gray = middle author roles (for original research published in the past five years).

### A. Peer-Reviewed Journal Articles: Original Research

1. Orpella K†, **Bowling DL**†, Tomaino C, & Ripollés P\*. Effects of Music Advertised to Support Focus on Mood and Processing Speed. *PLoS ONE*, *In press*.
2. Noufi C, Berger J, Parker KJ, & **Bowling DL**. Acoustically-Driven Phoneme Removal that Preserves Vocal Affective Cues. *Proceedings of ICASSP 2023 – 2023 IEEE International Conference on Acoustic, Speech and Signal Processing*, Rhodes Island, Greece, pp. 1-5.
3. **Bowling DL**\*, Gahr J, Graf Ancochea P, Hoeschele M, Canoine V, Fusani L, & Fitch WT. (2022). Endogenous Oxytocin, Cortisol, and Testosterone in Response to Group Singing. *Hormones and Behavior*, 139:105105.

4. Lesch R\*, Schwaha T, Orozco A, Shilling M, Brunelli S, Hofer M, **Bowling DL**, Zimmerberg B, & Fitch WT. (2021). Selection on Vocal Output Affects Laryngeal Morphology in Rats. *Journal of Anatomy*, 00:1-12.  
Participated in study conception and design, supervision, acquisition of the data, and critical revision of the manuscript for important intellectual content.
5. **Bowling DL**<sup>†\*</sup>, Dunn JC<sup>†</sup>, Smaers JB, Garcia M, Sato A, Hantke G, Handschuh S, Dengg S, Kerney M, & Kitchener AC, Gumpenberger M, & Fitch WT. (2020). Rapid Evolution of the Primate Larynx? *PLoS Biology*, 18:e30000764
6. Wagner B\*, **Bowling DL**, & Hoeschele M. (2020) Is Consonance Attractive to Budgerigars? No Evidence From a Place Preference Study. *Animal Cognition*, 23:973-987.  
Participated extensively in study conception and design, acquisition of the data, analysis and interpretation of the data, and critical revision of the manuscript for important intellectual content.
7. **Bowling DL**<sup>†\*</sup>, Graf Ancochea P<sup>†</sup>, Hove MJ, & Fitch WT. (2019). Pupillometry of Groove: Evidence for Noradrenergic Arousal in the Link Between Music and Movement. *Frontiers in Neuroscience*, 12:1039.
8. Congdon JV\*, Hahn, AH, Filippi P, Campbell KA, Hoang J, Scully EN, **Bowling DL**, Reber SA, Sturdy CB. (2019) Hear Them Roar: A Comparison of Black-capped Chickadee and Human Perception of Arousal in Vocalizations Across All Classes of Terrestrial Vertebrates. *Journal of Comparative Psychology*, 133:520-541.  
Participated in acquisition of the data and critical revision of the manuscript for important intellectual content.
9. Fritz TH\*, **Bowling DL**, Contier O, Grant J, Schneider L, Lederer A, Höer F, Busch E & Villringer A. (2018). Musical Agency During Physical Exercise Decreases Pain During Sports Exercise. *Frontiers in Psychology*, 8:2312.
10. **Bowling DL**\*, Purves D, & Gill KZ. (2018). Vocal Similarity Predicts the Relative Attraction of Musical Chords. *Proceedings of the National Academy of Sciences USA*, 115:216-221.
11. Garcia M\*, Herbst CT, **Bowling DL**, Dunn JC & Fitch WT\*. (2017). Acoustic Allometry Revisited: Morphological Determinates of Fundamental Frequency in Primate Vocal Production. *Scientific Reports*, 7:10450.
12. Filippi P\*, Congdon JV, Hoang J, **Bowling DL**, Reber SA, Pašukonis A, Hoeschele M, Ocklenburg S., de Boer B, Sturdy CB, Newen A & Güntürkün O. (2017). Humans Recognize Emotional Arousal in Vocalizations Across All Classes of Terrestrial Vertebrates: Evidence for Acoustic Universals. *Proceedings of the Royal Society B*, 284: 20170990.
13. **Bowling DL**\*, Garcia M, Dunn J, Ruprecht A... & Fitch WT. (2017). Body Size and Vocalization in Primates and Carnivores. *Scientific Reports*, 41070.

14. Herbst CT\*, Schutte HK, **Bowling DL**, & Svec JG. (2017). Comparing Chalk With Cheese-The Electroglottographic Contact Quotient is Only a Limited Surrogate of the Closed Quotient. *Journal of Voice*, 31:401-409.
15. Fillipi P\*, Ocklenburg S, **Bowling DL**\*, Heege L, Güntürkün O, Newen A & de Boer B. (2016). More than Words (and Faces): Evidence for a Stroop Effect of Prosody in Emotion Word Processing. *Cognition and Emotion*, 31:879-891.
16. Garcia M\*, Gingras B, **Bowling DL**, Herbst C, Boeckle M, Locatelli Y & Fitch WT\*. (2016). Structural Classification of Wild Boar (*Sus scrofa*) Vocalizations. *Ethology*, 122: 329-342.
17. Hoeschele M & **Bowling DL**\*. (2016). Sex Differences in Rhythmic Preferences in the Budgerigar (*Melopsittacus undulatus*): A Comparative Study with Humans. *Frontiers in Psychology*, 7:1543.
18. **Bowling DL**\*, Gingras B, Han S, Sundararajan J & Opitz ECL. (2013). Tone of Voice in Emotional Expression: Relevance for the Affective Character of Musical Mode. *Journal of Interdisciplinary Music Studies*, 7:29-44.
19. **Bowling DL**\*, Herbst CT & Fitch WT. (2013). Social Origins of Rhythm? Synchrony and Temporal Regularity in Human Vocalization. *PLoS ONE*, 8: e80402.
20. Carter RM, **Bowling DL**, Reeck C, & Huettel SA\*. (2012). A Distinct Role of the Temporal-Parietal Junction in Predicting Socially Guided Decisions. *Science*, 337: 109-111.
21. **Bowling DL**\*, Sundararajan J, Han S, & Purves D. (2012). Expression of Emotion in Eastern and Western Music Mirrors Vocalization. *PLoS ONE*, 7: e31942.
22. Han S, Sundararajan J, **Bowling DL**, Lake J, & Purves D\*. (2011). Co-Variation of Tonality in the Music and Speech of Different Cultures. *PLoS ONE*, 6: e20160.
23. **Bowling DL**\*, Gill K, Choi J, Prinz J, & Purves D. (2010). Major and Minor Music Compared to Excited and Subdued Speech. *Journal of the Acoustical Society of America*, 127: 491-503.

#### **B. Peer-Reviewed Journal Articles: Reviews**

1. **Bowling DL**\*. Biological Principles for Music and Mental Health. (2023). *Translational Psychiatry*, 13:374.
2. Itskovitch E<sup>†</sup>, **Bowling DL**<sup>†\*</sup>, Garner JP, & Parker KJ. (2022). Oxytocin and the Social Facilitation of Placebo Effects. *Molecular Psychiatry*, 27:2640-2649.
3. Filippi P\*, Hoeschele M, Spierings MJ, & **Bowling DL**. (2019). Temporal Modulation in Speech, Music, and Animal Vocal Communication: Evidence of Conserved Function. *Annals of the New York Academy of Science*, 1453:99-113.

4. **Bowling DL\*** & Purves D. (2015). A Biological Rationale for Musical Consonance. *Proceedings of the National Academy of Sciences USA*, 112: 11155-60.
5. Ravnani A\*, **Bowling DL**, & Fitch WT\*. (2014). Chorusing, Synchrony, and the Evolutionary Functions of Rhythm. *Frontiers in Psychology*, 5:1118.
6. **Bowling DL\***. (2013). A Vocal Basis for the Affective Character of Musical Mode in Melody. *Frontiers in Psychology*, 4:464.

### **C. Peer-Reviewed Journal Articles: Commentary**

1. Wagner B, **Bowling DL**, Hoeschele M (2023). Defining Octave Equivalence and a Comparative Approach to Understanding its Biological Foundations. *Current Anthropology*, 65, 518-520.  
Participated extensively in drafting of the original manuscript and critical revision of the manuscript for important intellectual content.
2. **Bowling DL\*** (2023). Vocal Similarity and the Biology of Musical Tonality. *Physics of Life Reviews*, 46, 46-51.
3. **Bowling DL\***, Hoeschele M, & Dunn JC. (2021). Progress Without Exclusion in the Search for an Evolutionary Basis of Music. *Brain and Behavioral Sciences*, 44, E97.
4. **Bowling DL\***. (2021). Harmonicity and Roughness in the Biology of Tonal Aesthetics. *Music Perception*, 38:331:334.
5. **Bowling DL\***. (2020). Claims of Categorical Primacy for Musical Affect are Confounded by Using Language as a Measure. *Proceedings of the National Academy of Sciences USA*, 117:9692-9693.
6. **Bowling DL\***, Hoeschele M, Gill KZ, & Fitch WT. (2017). The Nature and Nurture of Musical Consonance. *Music Perception*, 35:118-121.
7. **Bowling DL\***. (2017). The Continuing Legacy of Nature vs. Nurture in Biolinguistics. *Psychonomic Bulletin & Review*, 24:140.
8. **Bowling DL** & Fitch WT\*. (2015). Do Animal Communication Systems Have Phonemes? *Trends in Cognitive Sciences*, 19:555-57.
9. **Bowling DL\***. (2015). The Problem with Emotion. Comment on "The Quartet Theory of Human Emotions: An Integrative Neurofunctional Model" by S Koelsch et al. *Physics of Life Reviews*, 13:33-35.
10. **Bowling DL\***. (2014). Cognitive Theory and Brain Fact: Insights for the Future of Cognitive Neuroscience. Comment on "Toward a Computational Framework for Cognitive Biology: Unifying Approaches from Cognitive Neuroscience and Comparative Cognition" by WT Fitch. *Physics of Life Reviews*, 11:377-9.

## **D. Book Chapters**

1. Ravnani A, **Bowling DL**, Kirby S. (2014). The Psychology of Biological Clocks: A New Framework for the Evolution of Rhythm. In E. Cartmill, S. Roberts, H. Lyn, & H. Cornish (Eds.), *The Evolution of Language* (pp. 262–269).
2. **Bowling DL** & Purves D. (2012). A Biological Basis for Musical Tonality. In: B Barth, G Patrizia, H Klein (eds.), *Sensory Perception: Mind and Matter*. Springer Verlag, Heidelberg, DE.

## **E. Original Research Under Peer Review**

1. Scheer C, **Bowling DL**, Hungerländer NA, Horn L. Work Together, Move Together: Cooperation and Rapport Promote Interpersonal Synchrony. *PLoS ONE*, submitted 04/16/24.  
Participated extensively in the conception and design, analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.

## **VI. GRANTS**

### **A. Current Funding**

“Advancing Assessment of Auditory-Vocal Affect in Autism with Speech and Music”

*Role:* Principal Investigator

*Type:* K01

*Granting Agency:* NIMH

*Funding Term:* 04/2020 to 10/2024

### **B. Pending Funding**

“Standardized Music Medicine for Anxiety (STAMM-A): Preliminary Data”

*Role:* Principal Investigator

*Type:* Innovator Grant

*Granting Agency:* Department of Psychiatry and Behavioral Sciences, Stanford, SOM.

*Funding Term:* 11/2024 to 10/2026

“Standardized Music Medicine for Depression (STAMM-D): Development & Feasibility”

*Role:* Principal Investigator

*Type:* R34

*Granting Agency:* **NCCIH**

*Funding Term:* 03/2025 to 03/2028

### **B. Past Funding**

“Quantifying Auditory-Vocal Affect in Human Social Communication”

*Role:* Lead Investigator

*Type:* Seed Grant

*Granting Agency:* Wu Tsai Neurosciences Institute.

*Funding Term:* 10/2019 to 10/2022

“The Biology of Music: Perceiving and Participating in Synchrony”

*Role:* Principal Investigator

*Type:* Lisa Meitner Fellowship

*Granting Agency:* Austrian Science Fund

*Funding Term:* 03/2015 to 10/2017

“The Biology of Synchronous Behavior”

*Role:* Co-Principal Investigator

*Type:* Emerging Field Award,

*Granting Agency:* University of Vienna, Faculty of Life Sciences.

*Funding Term:* 01/2015 to 01/2016

## VII. NIH-DEFINED CLINICAL TRIALS

### **A. Pending Trials**

“Feasibility Trial of Standardized Music Medicine for Depression”

Role: Principal Investigator

Term: 03/2026 to 03/2028

### **B. Past Trials**

“Effects of Affectively Parameterized Music on Mood and Cognition”

Role: Co-Investigator

Term: 10/2020 to 04/2021

“Effects of Group Singing on Oxytocin, Cortisol, and Testosterone”

Role: Principal Investigator

Term: 09/2017 to 03/2018

“Effects of Syncopation and Pitch on Cortical Arousal”

Role: Principal Investigator

Term: 03/2017 to 12/2017

## VIII. EDITORIAL SERVICE

### **A. Peer Review Activities**

Forty-eight assignments since 2014. Mean review rate = 4.8 per year.

Journal Name (sorted by 5YIF)	5-Year Impact Factor (5YIF)	Assignments	
		Reviewer	Guest Editor
<i>Psychological Bulletin</i>	30.3	1	
<i>Nature Communications</i>	16.1	1	
<i>Science Advances</i>	13.7	1	
<i>PNAS USA</i>	10.3	13	1
<i>Psychonomic Bulletin &amp; Review,</i>	4.8	2	
<i>Expert Review of Neurotherapeutics</i>	4.6	1	
<i>Journal of Autism and Develop. Disorders</i>	4.2	1	
<i>Evolution and Human Behavior</i>	3.7	1	
<i>Hormones and Behavior</i>	3.4	1	
<i>Frontiers in Neurology</i>	3.4	1	
<i>Biology Letters</i>	3.4	1	
<i>Journal of Experimental Psychology: Human Perception and Performance</i>	3.3	1	
<i>Frontiers in Psychology</i>	3.3	5	
<i>Journal of Experimental Psychology: Learning, Memory, and Cognition</i>	2.9	1	
<i>BMC Neuroscience</i>	2.9	1	
<i>Frontiers in Human Neuroscience</i>	2.9	1	
<i>PLoS ONE</i>	2.9	1	
<i>Behavioral Science: Health Psychology</i>	2.7	1	
<i>PeerJ</i>	2.7	1	
<i>Journal of Nonverbal Behavior</i>	2.7	1	
<i>Speech Communication</i>	2.4	1	
<i>Journal of Cognition</i>	2.4	1	
<i>Journal of Comparative Psychology</i>	2.3	1	
<i>Musicae Scientiae</i>	2.2	1	
<i>Journal of the Acoustical Society of American</i>	2.2	1	
<i>Bioacoustics</i>	1.5	1	
<i>Music perception</i>	1.2	2	
<i>Comparative Cognition</i>	not available	1	
<i>Journal of Interdisciplinary Music Studies</i>	not available	1	

**IX. SERVICE TO PROFESSIONAL ORGANIZATIONS**

**A. Academic Memberships**

- Center for Precision Medicine, *Stanford University S.O.M.* 2022-present
- Maternal and Children’s health Institute, *Stanford University S.O.M.* 2022-present
- Bay Area Autism Consortium, *San Francisco Bay Area.* 2022-present



The SingWell Project, <i>Toronto Metropolitan University</i> .	2022-present
Center for Computer Research in Music and Acoustics, <i>Stanford University</i> .	2020-present
Sound Health Network, <i>UCSF</i> .	2019-present
Wu Tsai Neuroscience Institute, <i>Stanford University</i> .	2018-present
International Society for Bioacoustics, <a href="https://www.ibac.info">https://www.ibac.info</a> .	2017-present
Society for Music Perception and Cognition <a href="http://www.musicperception.org">http://www.musicperception.org</a> .	2015-present

## X. PRESENTATIONS

### A. Invited Presentations

1. **Bowling DL.** Rapid Evolution of the Primate Larynx. *Acoustic Communication: An Interdisciplinary Approach*. Federal University of Alfenas. Varginha, BR. November 2020. [Talk]
2. **Bowling DL.** Vocal Affect and the Biology of Music. *Department of Comparative Language Science, University of Zurich*. Zurich, CH. May 2020. [Talk]
3. **Bowling DL.** Vocalization and the Biology of Music. *Department of Psychology, Stanford University*. Stanford, CA. January 2020. [Talk]
4. **Bowling DL.** A Biological Rationale for Musical Consonance. *5th Meeting of the Carl Stumpf Society*. Vienna, AT. October 2015. [Talk]
5. **Bowling DL.** The Problem of Musical Consonance. *Duke-NUS Neurobiology and Behavioral Disorders Annual Retreat*. Singapore. August 2011. [Talk]
6. **Bowling DL.** The Affective Impact of Major and Minor Music. *Duke-NUS Early Career Scientists Symposium*. Singapore. October 2009. [Talk]

### B. National and Regional Meetings

1. **Bowling DL,** Noufi, C., Frank, J, Berger, J. & Parker, K. Defining Individual Variation in the Reception of Auditory-Vocal Affect in Autism. *Bay Area Autism Consortium Annual Symposium*. Stanford, CA. November, 2022. [Poster]
2. **Bowling DL.** Oxytocin and Group Singing. *Society for Music Perception and Cognition 2022 Conference*. Portland, OR. August 2022. [Talk]

3. **Bowling DL**, Noufi, C., Frank, J, Berger, J. & Parker, K. Evaluating Affect Perception with Speech and Speech-Derived “Music”. *Society for Music Perception and Cognition 2022 Conference*. Portland, OR. August 2022. [Poster]
4. Fillipi P, Ocklenburg S, **Bowling DL**, ... de boar B. Multimodal Processing of Emotion: Prosody and Facial Expression. *Evolution of Language 11*. New Orleans, LA. March 2016. [Talk]
5. **Bowling DL** & Purves D. A Biological Rationale for Musical Consonance. *Society for Music Perception and Cognition Conference*. Nashville, TN. July 2015. [Talk]
6. **Bowling DL** & Fritz TH. Musical Agency Modulates Pain. *Society for Music Perception and Cognition Conference*. Nashville, TN. July 2015. [Talk]

### **C. International Meetings**

1. Noufi C\*, Berger J, Parker KJ, **Bowling DL**. Acoustically-Driven Phoneme Removal that Preserves Vocal Affective Cues. *ICASSP 2023 – 2023 IEEE International Conference on Acoustic, Speech and Signal Processing*, Rhodes Island, Greece. June, 2023. [Talk]
7. **Bowling DL**, Purves D, & Gill, KZ. Vocal Similarity Predicts the Relative Attraction of Musical Chords. *15<sup>th</sup> International Conference on Music Perception and Cognition*. Graz, AT. July 2018. [Talk]
8. **Bowling DL**, Graf Ancochea P, & Fitch T. Pupillometry of Groove. *15<sup>th</sup> International Conference on Music Perception and Cognition*. Graz, AT. July 2018. [Talk]
9. **Bowling DL**. Body size and Vocalization Frequencies in Mammals. *8<sup>th</sup> European Conference on Behavioural Biology*. Vienna, AT. July 2016. [Talk]
10. **Bowling DL**, Garcia M, & Fitch WT. Primate Vocalization in Phylogenetic Context. *International Bioacoustics Conference*. Murnau, DE. September 2015. [Poster]
11. Horn L, Hungerländer N, Scheer C, & **Bowling DL**. Work Together, Move Together: Cooperation Promotes Interpersonal Synchrony in Human Dyads. *Behaviour*. Cairns, AU. August 2015. [Poster]
12. **Bowling DL** & Fritz TH. Musical Agency During Joint Exercise. *Joint Action Meeting 6*. Budapest, HU. July 2015. [Poster]
13. **Bowling DL** & Fitch WT. Social Origins of Rhythm? *Evolution of Language Conference 10*. Vienna, AT. April 2014. [Talk]
14. **Bowling DL** & Fitch WT. Synchrony and Temporal Regularity in Human Vocalization. *Syntax of the Mind International Conference*. Vienna, AT. April 2014. [Talk]
15. **Bowling DL** & Fitch WT. Social Origins of Rhythm? *3<sup>rd</sup> Transfer of Knowledge Conference on Comparative Cognition*. Vienna, AT. July 2013. [Poster]

16. **Bowling DL**, Sundararajan J, Han S, & Purves D. Emotional Expression in Music Mirrors Vocalization. *Duke-NUS Neurobiology and Behavioral Disorders Annual Retreat*, Singapore. August 2011. [Poster]

## VI. Trainees

Levels of study: D=doctoral; M=masters; RA=research assistant; U=undergraduate.

### A. Current

#	Name	Start Date	Level: topic	Current position
1.	Ryan Titapiwatanakun	01/2024	U: Independent study in Musical anxiolysis	Undergraduate student; <i>Stanford University</i>
2.	Alvin Wong	01/2024	U: Independent study in Musical anxiolysis	Undergraduate student; <i>Stanford University</i>

### B. Former

#	Name	Term	Level: topic	Current position
1.	Ying Yu	01/2023-07/2024	RA: Coordination of clinical studies	Med. School Student; <i>Columbia University</i>
2.	Camille Noufi	04/2022-11/2024	D: Affect in speech signals	Stanford PhD Recipient; <i>Transitioning to industry</i>
3.	Aaron Libed	09/2022-12/2022	U: Audition & pupillometry	Undergraduate Student; <i>Stanford University</i>
4.	Psalm Pineo-Cavanaugh	11/2020-06/2021	U: Speech deficits in autism	Research Assistant; <i>UCSF</i>
5.	Hannah Walton	02/2020-05/2021	U: Recording & processing speech	Masters Student; <i>Stanford University</i>
6.	Margaret Bruck	06/2019-01/2020	U: Emotion induction	Research Assistant; <i>Stanford University</i>
7.	Marlene Holtzhausen	08/2019-10/2019	U: Recording & processing speech	Masters Student; <i>Uni. of Oldenburg</i>
8.	Pablo Graf Ancochea	01/2015-06/2019	M: Pupillometry of groove	Data Analyst; <i>University of Vienna</i>
9.	Katarina Pera	04/2018-09/2018	U: Consonance perception	Masters Student; <i>University of Zagreb</i>
10.	Julia Gahr	09/2016-06/2018	M: hormones effects of group singing	Public School Teacher; <i>Vienna, Austria</i>
11.	Rafaella Lesch	02/2018-11/2018	D: Mammalian bioacoustics	Assistant Professor; <i>University of Arkansas</i>
12.	Sabrina Bettoni	02/2018-11/2018	D: Mammalian bioacoustics	PhD Student; <i>University of Vienna</i>
13.	Pamela Pacerová	03/2018-11/2018	U: Pupillometry	Service Manager; <i>LKW Walter Logistics</i>

14.	Shahzad Afroozeh	06/2016-06/2018	M: Rhythm perception	Senior Sys. Engineer; <i>OHB Digital Solutions</i>
15.	Isabella De Cuntis	02/2017-05/2017	U: Consonance perception	PhD Candidate; <i>IMT School for Advanced Studies</i>
16.	Joshua Bamford	10/2016-10/2017	M: Interpersonal synchrony	PhD Candidate; <i>University of Oxford</i>
17.	Tamás Novak	11/2015-06/2017	RA: Psychophysiology	Research Technician; <i>University of Bristol</i>
28.	Maximé Garcia	04/2015-04/2017	D: Primate bioacoustics	Senior Scientist; <i>FiBL</i>
19.	Rebecca Ruprecht	06/2013-02/2015	M: Bioacoustics	Business Sys. Analyst; <i>eBay</i>
20.	Asha Sato	06/2014-09/2015	RA: Larynx evolution	Teaching Fellow; <i>Uni. of Edinburgh</i>
21.	Emma Optiz	06/2013-06/2014	U: Matlab & psychophysics	Assist. Dir. Admissions; <i>Hampshire College</i>
22.	Jinook Oh	06/2013-04/2014	RA: Auditory-visual synchrony	Postdoctoral Student; <i>Austrian ÖAW</i>
23.	Janani Sundararajan	08/2009-05/2012	RA: Speech & music across cultures	Sen. Research Assoc.; <i>Chardan</i>
24.	Shui-er Han	08/2009-05/2012	RA: Speech & music across cultures	Postdoctoral Student; <i>Uni. of Rochester</i>
25.	Jessica Lake	05/2011-09/2011	D: Matlab programming	Dir. of Medical Affairs; <i>Big Health</i>

### **C. Teaching**

Psychophysics and Music Cognition [Guest lecturer]. Winter 2022 & 2023  
*Stanford University.*

Methods in Cognitive Biology [Co-Instructor]. Winter 2016 & 2017  
*University of Vienna.*

Neuroanatomy Lab [Teaching Assistant]. Winter 2009 & 2010  
*Duke University Medical School*