Stephen C. Van Hedger

svanhedg@uwo.ca

2012

2009

Huron University

Advisor: Howard C. Nusbaum

Advisor: Howard C. Nusbaum

A.B., Music, University of Chicago

General and Departmental Honors Phi Beta Kappa Honor Society

A.M., Psychology, University of Chicago

Department of Psychology +1 (519) 438-7224 x223 London, ON Canada https://haplab.ca PROFESSIONAL EXPERIENCE **Assistant Professor** 2020 - Present Department of Psychology Huron University Member 2020 - Present Centre for Brain and Mind Western Institute for Neuroscience University of Western Ontario Postdoctoral Fellow 2018 - 2020 Brain and Mind Institute Department of Psychology University of Western Ontario Advisors: Ingrid S. Johnsrude, Laura J. Batterink **Postdoctoral Scholar** 2015 - 2018 Chicago Center for Practical Wisdom Department of Psychology University of Chicago Advisors: Howard C. Nusbaum, Marc G. Berman **EDUCATION** Ph.D., Psychology, University of Chicago 2015

GRANT SUPPORT

SSHRC Insight Discovery Grant External Project Title: Borderlands between Speech and Music: The Development, Validation, and Initial Testing of a Musical Speech Corpus Role: Principal Investigator Amount: \$61,681 CAD	2024 - 2026
Notre Dame Research (NDR) Grant Internal (University of Notre Dame) Project Title: The Bittersweet Spot: How Musical Emotions Affect the Understanding of Life Events Role: Co-Investigator (PI: Dr. Berthold Hoeckner) Amount: \$100,000 USD	2023 - 2026
SSHRC Institutional Grant (SIG) Internal (Huron University) Project Title: Demystifying Perfect Pitch through Citizen Science Role: Principal Investigator Amount: \$6,400 CAD	2023 - 2024
Huron Technology Support Fund Internal (Huron University) Project Title: Developing a "Citizen Science" Website for Perfect Pitch Role: Principal Investigator Amount: \$2,312 CAD	2022 - 2023
CIHR Project Grant External Project Title: The Cognitive Neuroscience of Listening Effort Role: Co-Investigator (PIs: Dr. Bjorn Herrmann, Dr. Ingrid Johnsrude, Dr. Susan Scollie) Amount: \$742,050 CAD	2022 - 2027
BrainsCAN Registered Report Fund Internal (University of Western Ontario) Project Title: Characterizing Listening Effort in the Understanding of Noisy Speech Role: Principal Investigator Amount: \$7,400 CAD	2021 - 2022
SSHRC Institutional Grant (SIG) Internal (University of Western Ontario) Project Title: Auditory category learning, memory, and generalization Role: Co-Investigator (PI: Ingrid Johnsrude) Amount: \$7,000 CAD	2020 - 2021

Stephen C. Van Hedger	C.V 3 of 16
Targeted Research Fund Internal (Huron University) Project Title: Engagement with Nature and Well-Being in the Age of COVID-19 Role: Principal Investigator Amount: \$4,100 CAD	2020 - 2021
Division of Social Sciences Research Grant Internal (University of Chicago) Project Title: Neural correlates of absolute pitch categorization Role: Principal Investigator Amount: \$11,800 USD	2014 - 2015
Arts-Science Graduate Collaboration Grant Internal (University of Chicago) Project Title: The role of vibrotactile feedback in music performance Role: Principal Investigator (Co-PIs: Jonathan De Souza, Shannon Heald) Amount: \$1,500 USD	2010 - 2011
FELLOWSHIPS AND AWARDS	
BrainsCAN Tier I Postdoctoral Fellowship Award University of Western Ontario \$70,000 CAD/year	2018 - 2020
Western Cognitive Neuroscience Postdoctoral Fund	2018 - 2020
University of Western Ontario Brain and Mind Institute \$50,000 CAD/year	
Brain and Mind Institute	2015
Brain and Mind Institute \$50,000 CAD/year John Dewey Prize Lectureship University of Chicago Department of Psychology	2015 2014
Brain and Mind Institute \$50,000 CAD/year John Dewey Prize Lectureship University of Chicago Department of Psychology \$5,000 USD Starkey Duncan Award for Excellence in Undergraduate Teaching University of Chicago	

i10-index: 25

PUBLICATIONS

Google Scholar Metrics (as of September 4, 2024) City

Citations: 820 h-index: 16

Peer-Reviewed Articles

- [1] Bongiovanni, N., Chan, T.M.V., **Van Hedger, S.C.,** Findley, C., & Hoeckner, B. (In Press). Pitch height and mode have asymmetrical effects on the perception of mixed emotions in major and minor seventh chords. *Psychology of Aesthetics, Creativity, and the Arts*. https://doi.org/10.1037/aca0000705
- [2] Mathiesen, S.L., **Van Hedger, S.C.**, Irsik, V.C., Bain, M.M., Johnsrude, I.S., & Herrmann, B. (2024). Exploring age differences in absorption and enjoyment during story listening. *Psychology International*, *6*, 667-684. https://doi.org/10.3390/psycholint6020041
- [3] **Van Hedger, S.C.,** Halpern, A.R., Vollweiler, D.J., Smith, E.E., & Pfordresher, P.Q. (2024). Is *Hey Jude* in the right key? Cognitive components of absolute pitch memory. *Memory & Cognition*. Advance Online Publication: https://doi.org/10.3758/s13421-024-01530-x
- [4] Hull, K., Van Hedger, K., & **Van Hedger, S.C.** (2024). Absorption relates to individual differences in visual face pareidolia. *Current Psychology*, 43, 4458-4474. https://doi.org/10.1007/s12144-023-04670-6
- [5] Sweet, S., **Van Hedger, S.C.,** & Batterink, L.J. (2024). Of words and whistles: Statistical learning operates similarly for identical sounds perceived as speech and non-speech. *Cognition*, 242, 105649. https://doi.org/10.1016/j.cognition.2023.105649
- [6] **Van Hedger, S.C.**, Bongiovanni, N., & Khudhair, H. (2023). Some like it sharp: Song familiarity influences musical preference for absolute tuning. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. https://doi.org/10.1037/aca0000636
- [7] **Van Hedger, S. C.,** & Bongiovanni, N. (2023). Widespread but limited in context: Absolute tuning judgments are disrupted by relative pitch cues. *Music & Science*, 6, https://doi.org/10.1177/20592043231208626
- [8] Schertz, K.E., Kotabe, H.P., Meidenbauer, K.L., Layden, E.A., Zhen, J., Bowman, J.E., Lakhtakia, T., Lyu, M., Paraschos, O.A., Janey, E.A., Samtani, A.L., Stier, A.J., Gehrke, K., Van Hedger, S.C., Vohs, K.D., & Berman, M.G. (2023). Nature's path to thinking about others and the surrounding environment. *Journal of Environmental Psychology*, 89, 102046. https://doi.org/10.1016/j.jenvp.2023.102046
- [9] **Van Hedger, S.C.**, Bongiovanni, N., Heald, S.L.M., & Nusbaum, H.C. (2023). Absolute pitch judgments of familiar melodies generalize across timbre and octave. *Memory & Cognition*, 51, 1898-1910. https://doi.org/10.3758/s13421-023-01429-z
- [10] Bongiovanni, N., Heald, S.L.M., Nusbaum, H.C., & Van Hedger, S.C. (2023). Generalizing across tonal context, timbre, and octave in rapid absolute pitch training. *Attention, Perception, & Psychophysics*, 85, 525-542. https://doi.org/10.3758/s13414-023-02653-0

- [11] Alexander, E., **Van Hedger, S.C.**, & Batterink, L.J. (2023). Learning words without trying: Daily second language podcasts support word-form learning in adults. *Psychonomic Bulletin & Review*, 30, 751-762. https://doi.org/10.3758/s13423-022-02190-1
- [12] Schertz, K.E., Bowman, J.E., Kotabe, H.P., Layden, E.A., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O.A., **Van Hedger, S.C.**, Rim, N.K., Vohs, K.D., & Berman, M.G. (2022). Environmental influences on affect and cognition: A study of natural and commercial semi-public spaces. *Journal of Environmental Psychology*, 101852, https://doi.org/10.1016/j.jenvp.2022.101852
- [13] Brancato, G., Van Hedger, K., Berman, M.G., & **Van Hedger**, **S.C.** (2022). Simulated nature walks improve psychological well-being along a natural to urban continuum. *Journal of Environmental Psychology*, 101779, https://doi.org/10.1016/j.jenvp.2022.101779
- [14] Dumas, T.M., Ellis, W.E., **Van Hedger, S.C.**, Litt, D.M., & MacDonald, M. (2022). Lockdown, bottoms up? Changes in adolescent substance use across the COVID-19 pandemic. *Addictive Behaviours*, 131, 107326. https://doi.org/10.1016/j.addbeh.2022.107326
- [15] Heald, S.L.M., **Van Hedger, S.C.**, Veillette, J., Reis, K., Snyder, J.S., & Nusbaum, H.C. (2022). Going beyond rote auditory learning: Neural patterns of generalized auditory learning. *Journal of Cognitive Neuroscience*, 34, https://doi.org/10.1162/jocn_a_01805
- [16] Van Hedger, S.C., Johnsrude, I.S., & Batterink, L.J. (2022). Musical instrument familiarity affects statistical learning of tone sequences. *Cognition*, 218, 104949. https://doi.org/10.1016/j.cognition.2021.104949
- [17] Reis, K.S., Heald, S.L.M., Veillette, J.P., **Van Hedger, S.C.**, & Nusbaum, H.C. (2021). Individual differences in human frequency-following response predict pitch labeling ability. *Scientific Reports*, *11*, 14290, https://doi.org/10.1038/s41598-021-93312-7
- [18] **Van Hedger, S.C.**, Veillette, J.P., Heald, S.L.M., & Nusbaum, H.C. (2020). Revisiting continuous versus discrete models of human behavior: The case of absolute pitch. *PLoS One*, https://doi.org/10.1371/journal.pone.0244308
- [19] Uddin, S., Reis, K., Van Hedger, S.C., Heald, S.L.M., & Nusbaum, H.C. (2020). Cortical mechanisms of talker normalization in fluent sentences. *Brain & Language*, 201, 104722. https://doi.org/10.1016/j.bandl.2019.104722
- [20] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2019). Absolute pitch can be learned by some adults. *PLoS One*, https://doi.org/10.1371/journal.pone.0223047
- [21] Zhen, A., **Van Hedger, S.C.**, Heald, S.L.M., Goldin-Meadow, S., & Tian, X. (2019). Manual directional gestures facilitate cross-modal perceptual learning. *Cognition*, *187*, 178-187. https://doi.org/10.1016/j.cognition.2019.03.004
- [22] **Van Hedger, S.C.**, Nusbaum, H.C., Clohisy, L., Jaeggi, S.M., Buschkuehl, M., & Berman, M.G. (2019). Of cricket chirps and car horns: The effect of nature sounds on cognitive performance. *Psychonomic Bulletin & Review*, 26, 522-530. https://doi.org/10.3758/s13423-018-1539-1

- [23] Van Hedger, S.C., Nusbaum, H.C., Heald, S.L.M., Huang, A., Kotabe, H., & Berman, M.G. (2019). The aesthetic preference for nature sounds depends on sound object recognition. *Cognitive Science*, 43, e12734. https://doi.org/10.1111/cogs.12734
- [24] Stenfors, C., **Van Hedger, S.C.** ... Berman, M.G. (2019). Positive effects of nature on cognitive performance across multiple experiments: Test order but not affect modulates the cognitive effects. *Frontiers in Psychology*, 10:1413. https://doi.org/10.3389/fpsyg.2019.01413
- [25] Van Hedger, S.C., & Nusbaum, H.C. (2018). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. *Acta Psychologica*, 191, 251-260. https://doi.org/10.1016/j.actpsy.2018.10.007
- [26] Van Hedger, S.C., Heald, S.L.M., Uddin, S., & Nusbaum, H.C. (2018). A note by any other name: Intonation context rapidly influences absolute note judgments. *Journal of Experimental Psychology: Human Perception & Performance*, 44, 1268-1282. https://doi.org/10.1037/xhp0000536
- [27] Uddin, S., Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2018). Hearing sounds as words: Neural responses to environmental sounds in the context of fluent speech. *Brain & Language*, 179, 51-61. https://doi.org/10.1016/j.bandl.2018.02.004
- [28] Nusbaum, H.C., Uddin, S., **Van Hedger, S.C.**, & Heald, S.L.M. (2018). Consolidating skill learning through sleep. *Current Opinion in Behavioral Sciences*, 20, 174-182. https://doi.org/10.1016/j.cobeha.2018.01.013
- [29] Uddin, S., Heald, S.L.M., **Van Hedger, S.C.**, Klos, S., & Nusbaum, H.C. (2018). Understanding environmental sounds in sentence context. *Cognition*, 172, 134-143. https://doi.org/10.1016/j.cognition.2017.12.009
- [30] Van Hedger, S.C., Heald, S.L.M., & Nusbaum, H.C. (2018). Long-term pitch memory for music recordings is related to auditory working memory precision. *The Quarterly Journal of Experimental Psychology*, 71, 879-891. https://doi.org/10.1080/17470218.2017.1307427
- [31] Van Hedger, S.C., Heald, S.L.M., Huang, A., Rutstein, B., & Nusbaum, H.C. (2017). Telling in-tune from out-of-tune: Widespread evidence for implicit absolute intonation. *Psychonomic Bulletin & Review*, 24, 481-488. https://doi.org/10.3758/s13423-016-1099-1
- [32] Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2017). Perceptual plasticity for auditory object recognition. *Frontiers in Psychology*, *8*, 781. https://doi.org/10.3389/fpsyg.2017.00781
- [33] Van Hedger, S.C., Heald, S.L.M., & Nusbaum, H.C. (2016). What the [bleep]? Enhanced absolute pitch memory for a 1000 Hz sine tone. *Cognition*, 154, 139-150. https://doi.org/10.1016/j.cognition.2016.06.001
- [34] **Van Hedger, S.C.,** Heald, S.L.M., & Nusbaum, H.C. (2015). The effects of acoustic variability on absolute pitch categorization: Evidence of contextual tuning. *Journal of the Acoustical Society of America*, 138(1), 436-446. https://doi.org/10.1121/1.4922952
- [35] Van Hedger, S.C., Heald, S.L.M., Koch, R., & Nusbaum, H.C. (2015). Auditory working memory predicts individual differences in absolute pitch learning. *Cognition*, 140, 95-110. https://doi.org/10.1016/j.cognition.2015.03.012

- [36] Van Hedger, S.C., Palmer, C., Hogstrom, A., & Nusbaum, H.C. (2015). Sleep consolidation of musical competence. *Music Perception*, 33(2), 163-178. https://doi.org/10.1525/mp.2015.33.2.163
- [37] Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2014). Auditory category knowledge in experts and novices. *Frontiers in Neuroscience*, *8*, 260. https://doi.org/10.3389/fnins.2014.00260
- [38] **Hedger, S.C.**, Nusbaum, H.C., Lescop, O., Wallisch, P., & Hoeckner, B. (2013). Music can elicit a visual motion aftereffect. *Attention, Perception, & Psychophysics, 75*(5), 1039-1047. https://doi.org/10.3758/s13414-013-0443-z
- [39] **Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2013). Absolute pitch may not be so absolute. *Psychological Science*, 24(8), 1496-1502. https://doi.org/10.1177/0956797612473310
- [40] **Hedger, S. C.**, Nusbaum, H.C., & Hoeckner, B. (2013). Conveying movement in music and prosody. *PLoS One*, 8(10), e76744. https://doi.org/10.1371/journal.pone.0076744

Preprints

- [1] **Van Hedger, S.C.**, Jovanovic, K., Grenier, A., & Hoh, S.Y. (2024). Short-term pitch memory predicts both incidentally and intentionally acquired absolute pitch categories. *PsyArXiv*, https://doi.org/10.31234/osf.io/k37ym
- [2] Ahmed, H., Van Hedger, K., Berman, M.G., & **Van Hedger, S.C.** (2024). Degraded nature sounds are liked less but still restorative. *PsyArXiv*, https://doi.org/10.31234/osf.io/knvy8
- [3] Whiteford, K.L., Baltzell, L.S., Chiu, M., Cooper, J.K., Faucher, S., Goh, P.Y., Hagedorn, A., Irsik, V.C., Irvine, A., Lim, S.J., Mesik, J.L., Mesquita, B., Oakes, B., Rajappa, N., Roverud, E., Schrlau, A.E., Van Hedger, S.C., Bharadwaj, H.M., Johnsrude, I.S., Kidd Jr., G. Luebke, A.E., Maddox, R.K., Marvin, E.W., Perrachione, T.K., Shinn-Cunningham, B.G., & Oxenham, A.J. (2024). Musical training does not enhance neural sound encoding at early stages of the auditory system: A large-scale multisite investigation. bioRxiv, https://doi.org/10.1101/2024.09.02.610856
- [4] Babalola, O., Van Hedger, K., & **Van Hedger**, **S.C.** (2024). Misophonia is associated with heightened emotion evocation by music. *PsyArXiv*, https://doi.org/10.31234/osf.io/jzydf
- [5] Thomson, J. S. H., & **Van Hedger, S. C.** (2023). Effects of a brief online mindfulness intervention on cognition and affect in university students: A randomized longitudinal design. *PsyArXiv*, https://doi.org/10.31234/osf.io/zwbhe
- [6] Cormier, H., Tsang, C.D., & **Van Hedger, S.C.** (2023). The role of attention in inducing a musically induced visual motion aftereffect. *PsyArXiv*, https://doi.org/10.31234/osf.io/vh9n6
- [7] **Van Hedger, S.C.,** Winspear, M., & Batterink, L.J. (2021). Talker variability facilitates the statistical learning of speech sounds. *PsyArXiv*, https://doi.org/10.31234/osf.io/t8eyh

2020 - 2023

Book Chapters and Encyclopedia Entries

- [1] **Van Hedger, S.C.,** & Maheshwari, U. (In Press). Music and Language in the Brain: Balancing Domain-Specific and Domain-General Mechanisms. In E. Andrews (Ed.) *Cambridge Handbook of Language and Brain*. Cambridge University Press.
- [2] **Van Hedger, S.C.,** & Johnsrude, I.S. (2022). Speech perception under adverse listening conditions. In A. Popper, A. Coffin (Eds.), *Springer Handbook of Auditory Research*. Springer, Cham. https://doi.org/10.1007/978-3-030-81542-4_6
- [3] **Van Hedger, S.C.**, & Nusbaum, H.C. (2018). Absolute pitch. In: J. Vonk, T. K. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer, Cham.
- [4] Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2017). Understanding sound: Auditory skill acquisition. *Psychology of Learning and Motivation*, *67*, 53-93.

TEACHING EXPERIENCE

<u>Current Courses, Huron University</u>	
PSYCHOL 1100E: Method in General Psychology*	2020 - 2023
PSYCHOL 2115A: Introduction to Sensation and Perception	2020
PSYCHOL 2130E: Method in Sensation and Perception	2023
PSYCHOL 2750E: Theories and Methods of Cognitive Neuroscience	2021
PSYCHOL 3131F**: Music Cognition	2020, 2022, 2023
PSYCHOL 3696G : Dynamics of Mentorship in Psychology Research*	2023

^{*} Team-taught course

PSYCHOL 4880E: Honors Thesis*

Previous Courses

SOSC 14100: Mind - I (University of Chicago)	2012+, 2013
SOSC 14200: Mind - II (University of Chicago)	2013+, 2014
SOSC 14300: Mind - III (University of Chicago)	2013+
PSYC 20200: Psychological Research Methods (University of Chicago)	2014+
PSYC 20700: Sensation and Perception (University of Chicago)	2014+
PSYC 24860: The Musical Mind (University of Chicago)	2015

⁺ Teaching Assistant

Guest Lectures

PSYCHOL 4195F: Special Topics in Cognitive Psychology (University of Western 2021, 2022 Ontario)

Lecture Title: "Perceptual learning of absolute pitch in adulthood"

^{**} Also taught under PSYCHOL 3760F/G

PSYCHOL 2115A: Introduction to Sensation and Perception (University of Western Ontario)
Lecture Title: "How does sleep influence perceptual processes?"

COMMSCI 4417A: Introduction to Hearing Science (University of Western Ontario)
Lecture Title: "Perceptual Organization of Music"

PSY 210: Introduction to Psychological Science (Elmhurst College)
Lecture Title: "Does this Taylor Swift sound sharp? Exploring pitch memory in the general population"

MENTORSHIP EXPERIENCE

Undergraduate Honors Thesis Advising

[1] Carson Kiriakopoulos (2024-25)
Huron University
Title: TBD
[2] Lauren Perry (2024-25)
Huron University
Title: TBD

[3] <u>Catherine Webster (2024-25)</u>

Huron University

Title: TBD

[4] <u>Yujia Zhao (2024-25)</u>

Huron University

Title: TBD

[5] <u>Ethan Axler (2023-24)</u>

Huron University

Title: An investigation of the effects of suggestion in auditory memory: How much do humans really like the sound of our voice?

[6] Omolewa Babalola (2023-24)

Huron University

Title: Understanding the relationship between misophonia and musical memory, emotion, and categorization

[7] Morgan Clarke (2023-24)

Huron University

Title: Environmental narratives and psychological restoration: An immersive experience

[8] <u>Natalie Tong (2023-24)</u>

Huron University

Title: The role of mindfulness in experiencing restoration from spoken narratives describing nature

[9] Mark Dunlop (2022-23)

Huron University

Title: Effects of age, need for cognition, and cognitive fatigue on statistical learning

[10] André Grenier (2022-23)

Huron University

Title: Assessing the effectiveness of different training paradigms in pitch categorization

[11] <u>Jordan Thomson (2022-23)</u>

Huron University

Title: Effects of an auditory-based 15-minute daily online mindfulness intervention on cognitive processing, socio-affective functioning, and dispositional mindfulness

[12] Evan Smith (2022-23)

Huron University

Title: Tonal working memory and singing ability relate to individual differences in long-term memory for musical pitch

[13] Huda Ahmed (2021-2022)

Huron University

Title: The influence of sound quality on the restorative benefits of nature

[14] <u>Hannah Cormier (2020-2021)</u>

Huron University

Title: The role of attention in inducing cross-modal aftereffects

[15] <u>Giuliana Brancato (2020-2021)</u>

Huron University

Title: Virtual walks through nature and increased well-being

[16] Amish Gaur (2020-2021)

University of Western Ontario

Title: The effects of degraded speech on long-term memory in individuals with mild-moderate sensorineural hearing loss

[17] Mykayla Winspear (2019-2020)

University of Western Ontario

Title: The influence of talker variability on statistical learning

[18] <u>Mackenzie Bacon (2018-2019)</u>

University of Western Ontario

Title: Memory for words and sentences: The effect of acoustical degradation

[19] <u>Luke Clohisy (2017-2018)</u>

University of Chicago

Title: Memory for popular music: Evidence for widespread tempo abilities and implicit pitch categories

[20] <u>Max Bluestone (2015- 2016)</u>

University of Chicago

Title: The effects of semantic and temporal congruency on memory for audiovisual clips

[21] Anders Hogstrom (2012-2013)

University of Chicago

Title: The sound of silence: Attention entrainment to isochronous and syncopated beats

PhD Advising

[1] Joseph Rovetti (2023 - Present)

University of Western Ontario

Co-Supervised with Ingrid S. Johnsrude

Huron Auditory Perception (HAP) Lab Mentorship

Role: Principal Investigator

[1]	Ethan Axler (2021 - 2024)	[12]	Katherine Hull (2021 - 2022) *
[2]	Omolewa Babalola (2022 - 2024) * +	[13]	Katarina Jovanovic (2023 - Present) *
[3]	Noah Bongiovanni (2020 - 2024) *	[14]	Huda Khudhair (2021 - 2023) *
[4]	Alexa Bouchard (2023 - Present)	[15]	Noor El Madani (2024 - Present)
[5]	Georgia Bubel (2024- Present)	[16]	Monika Nguyen (2022 - 2024)

[6]	Eden Brown (2023 - Present)	[17]	Irina Petrovic (2020 - 2022)
[7]	Amish Gaur (2020 - 2022)	[18]	Evan Smith (2022 - Present) *
[8]	André Grenier (2022 - 2023) *	[19]	Jordan Thomson (2022 - 2023) * +
[9]	Lucas Hardie (2023 - Present)	[20]	Natalie Tong (2022 - 2024)
[10]	Noah Hendricks-Polack (2024 – Present) +	[21]	Michelle Tu (2021 - 2022)
[11]	Austyn (Sum Yee) Hoh (2023 - Present) *	[22]	Hebe Wong (2022 - 2023)

^{*} Co-author on preprint or peer-reviewed journal article

Additional Mentorship Experience

[1] Science Research Program Mentor

2023

Fox Lane High School

Worked one-on-one with a high school student to develop a research project related to absolute pitch and tonal language experience.

[2] Practicum Advisor, Master's Program in Computer Science

2015 - 2016

University of Chicago

Advised two master's students in the design and execution of psychophysical projects.

PROFESSIONAL SERVICE

Journal Reviewer

Current Directions in Psychological Science | Cortex | Communications Psychology | Proceedings of the National Academy of Sciences | Proceedings of the Royal Society B | Journal of Experimental Psychology: General | Neuropsychologia | OpenMind | Cognitive Science | eLife | Psychonomic Bulletin and Review | Attention, Perception, & Psychophysics | Behavior Research Methods | Brain and Language | Social Cognitive and Affective Neuroscience | Journal of Neurolinguistics | PLOS One | Royal Society Open Science | Memory | Scientific Reports | Frontiers in Neuroscience | Heliyon | Music Perception | Trends in Hearing | Acta Psychologica | Journal of Experimental Psychology: Learning, Memory, and Cognition | Annals of the New York Academy of Sciences | The Journal of the Acoustical Society of America | Applied Acoustics | Current Psychology | Collabra: Psychology | iScience | Brain Sciences | Biological Rhythm Research | Humanities & Social Sciences Communications | STEM Fellowship Journal | Liberated Arts

Grant Reviewer

Israel Science Foundation (ISF)

Editorial Experience

[1] Guest Editor: Frontiers in Psychology

Topic: "Active Cognitive Processing for Auditory Perception"

[2] Editorial Board Member: STEM Fellowship Journal

Leadership Roles

[1] Member, Program Committee (2023-2024)

Biennial Conference of the Society for Music Perception and Cognition

Banff, Alberta, Canada

⁺ Centre for Undergraduate Research Learning (CURL) Fellowship Winner

[2] Member-At-Large (2021 – 2023)
Executive Board of the Society for Music Perception and Cognition

PROFESSIONAL ORGANIZATIONS

The Society for Music Perception and Cognition | The Psychonomic Society | Association for Research in Otolaryngology | The Association for Psychological Science | The Acoustical Society of America | The American Psychological Association | Sigma Xi (Full Member)

UNIVERSITY SERVICE

Departmental Service			
[1]	Coordinator, Psychology Course Research Credit System	2023 - Present	
[2]	Course Coordinator, PSYCHOL 1100E	2022 - 2024	
[4]	Course Coordinator, 151 CHOL 1100L	2022 - 2024	
<u>Gradu</u>	ate Student Committee Work		
[1]	External Ph.D. Examiner (Jane Bairnsfather)	2024	
	The University of Melbourne		
[2]	M.Sc. Graduate Advisory Committee Member (Adam Cotton)	2023 - 2024	
	University of Western Ontario		
[3]	External Ph.D. Examiner (Samuel Leak)	2023	
	Cambridge University		
[4]	Comprehensive Examiner (Cailey Salagovic)	2023	
	University of Western Ontario		
[5]	Ph.D. Graduate Advisory Committee Member (Bruno Mesquita)	2022 - Present	
F - 3	University of Western Ontario		
[6]	University Examiner, M.Sc. Defense (Sarah Berger)	2022	
	University of Western Ontario		
[7]	M.Sc. Graduate Advisory Committee Member (Bruno Mesquita)	2020 - 2022	
F-3	University of Western Ontario		
[8]	University Examiner, Ph.D. Defense (Avital Sternin)	2021	
	University of Western Ontario		
Unive	rsity Committee Work		
[1]	Member-At-Large, Huron Centre for Undergraduate Research Learning	2024 - Present	
[2]	Huron University Research Committee	2021 - 2023	
[3]	Huron University Teaching and Learning Committee	2021 - 2024	
[4]	University of Chicago Travel and Research Committee	2010 - 2014	
1-1			
Speak	Speaking Engagements		
[1]	Panelist, "Huron's Unique Approach to Teaching & Experiential	2024	
	Learning"		
	Huron University		
[2]	Spring Preview Day Mock Lecture	2024	
	Huron University		
	Title: "What can perceptual illusions tell us about psychology?"		

[3]	Panelist, HeadStart 2023	2023
	Huron University	
	Topic: "How to apply to graduate school"	
[4]	Scotiabank Scholars Sample Lecture	2022, 2023
	Huron University	
	Title: "What makes a leader with heart? Insights from psychology"	
[5]	Panelist, Spring Open House	2022
	Huron University	
	Topic: "Where do you find community in a world of technology?"	
[6]	Panelist, Centre for Undergraduate Research Learning Spring Conference	2022
	Huron University	
	Topic: "Undergraduate research, mentorship, and collaboration"	

Additional University Service

[1] Fulbright Scholarship Interviewer

2012 - 2018

University of Chicago

Annually reviewed between 4-7 applications for Fulbright Scholarships and submit recommendations to the university.

[2] PRISM Psychology Graduate Student Preceptor

2012 - 2014

University of Chicago

Planned approximately 7 events each academic year to help students become involved in research and explore post-graduation opportunities.

[3] Council on Advanced Studies Workshop Coordinator

2011 - 2012

University of Chicago

Organized biweekly presentations of music perception research given by graduate students, faculty, and external speakers.

SELECTED CONFERENCE TALKS

- [1] **Van Hedger, S.C.**, & Grénier, A.* (2024). Assessing the Efficacy of a Gamified Approach to Training Absolute Pitch Categories. *Biennial Meeting of the Society for Music Perception and Cognition*, Banff, AB.
- [2] **Van Hedger, S.C.,** Bongiovanni, N., Heald, S.L.M., & Nusbaum, H.C. (2023). Absolute pitch judgments of familiar melodies generalize across timbre and octave. *Midwest Cognitive Science Conference*, Grand Rapids, MI.
- [3] **Van Hedger, S.C.,** & Johnsrude, I.S. (2020). Understanding different forms of degraded speech as an auditory skill. 43rd Annual Midwinter Meeting of the Association for Research in Otolaryngology, San Jose, CA
- [4] Van Hedger, S.C., Heald, S.L.M., & Nusbaum, H.C. (2019). Robust absolute pitch memory in the general population: Evidence from popular melodies. *Society for Music Perception and Cognition Conference*. New York University, New York, NY

- [5] Van Hedger, S.C., Heald, S.L., Koch, R., Nusbaum, H.C. (2015). Auditory working memory predicts individual differences in absolute pitch learning: Evidence from short-and long-term training. *Society for Music Perception and Cognition Conference*. Vanderbilt University, Nashville, TN
- [6] **Van Hedger, S.C.**, Heald, S.L., Nusbaum, H.C. (2015). Incidental absolute pitch learning in an interactive multi-modal environment. *Acoustical Society of America* 170th *Meeting*. Jacksonville, FL
- [7] **Hedger, S.C.**, Heald, S.L., Nusbaum, H.C. (2013). Absolute pitch may not be so absolute. *Society for Music Perception and Cognition Conference*. Ryerson University, Toronto, ON
- [8] **Hedger, S.C.,** Klos, S., Nusbaum, H.C. (2013). Individual differences in the short- and long-term training of musical pitch. *Midwest Music Cognition Symposium*. The Ohio State University, Columbus, OH
- [9] Hedger, S.C., Hoeckner, B., Nusbaum, H.C. (2011). Music Can Convey Movement like Prosody in Speech. Society for Music Perception and Cognition Conference. Eastman School of Music, Rochester, NY
- [10] **Hedger, S.C.,** Heald, S.L., DeSouza, J., Hoeckner, B., Nusbaum, H.C. (2011). The Role of Vibrotactile Input in Musical Performance. *Franke Institute for the Humanities*. The University of Chicago, Chicago, IL
- [11] **Hedger, S.C.**, Hoeckner, B., Nusbaum, H.C. (2011). The Sound of Motion in Music. *Midwest Cognitive Science Meeting*. Michigan State University, East Lansing, MI

SELECTED POSTER PRESENTATIONS

- [1] Hoh, S.*, Jovanovic, K.*, & **Van Hedger, S.C.** (2024). Short-Term Pitch Memory Explains Variance in Both Incidental and Explicit Absolute Pitch Representations. *Biennial Meeting of the Society for Music Perception and Cognition*, Banff, AB.
- [2] **Van Hedger, S.C.**, Halpern, A.R., Vollweiler, D.J., Smith, E.*, & Pfordresher, P.Q. (2023). Is *Hey Jude* in the right key? Cognitive and sensorimotor components of absolute pitch memory. *Annual Meeting of the Psychonomic Society*, San Francisco, CA.
- [3] Bongiovanni, N.*, Heald, S.L.M., Nusbaum, H.C., & Van Hedger, S.C. (2023).

 Generalizing across tonal context, timbre, and octave in rapid absolute pitch training.

 Midwest Cognitive Science Conference, Grand Rapids, MI.
- [4] **Van Hedger, S.C.**, & Batterink, L.J. (2022). Talker variability influences the statistical learning of speech. *Annual Meeting of the Psychonomic Society*, Boston, MA
- [5] **Van Hedger, S.C.,** & Khudhair, H.* (2021). Does tuning influence aesthetic judgments of music? Investigating the generalizability of absolute intonation ability. *Annual Meeting of the Psychonomic Society*, (virtual)

- [6] Cormier, H.*, Tsang, C.D., & **Van Hedger, S.C.**, (2021). Musical scales can elicit visual motion aftereffects outside of the scope of attention. *Auditory Perception, Cognition, and Action Meeting*. (virtual)
- [7] Van Hedger, S.C., Johnsrude, I.S., & Batterink, L.J. (2020). Prior real-world experience influences non-linguistic statistical learning. *Annual Meeting of the Psychonomic Society*, Austin, TX (virtual)
- [8] **Van Hedger, S.C.,** Heald, S.L.M., Nusbaum, H.C., Batterink, L.J., Davis, M.H., & Johnsrude, I.S. (2019). Learning different forms of degraded speech as a cognitive skill. *Annual Meeting of the Psychonomic Society,* Montreal, QC
- [9] **Van Hedger, S.C.,** Heald, S.L.M., & Nusbaum, H.C. (2019). Neural bases of note normalization in absolute pitch. 13th Annual Canadian Neuroscience Meeting, Toronto, ON
- [10] **Van Hedger, S.C.**, & Nusbaum, H.C. (2019). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. 42nd Annual Midwinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD
- [11] **Van Hedger, S.C.,** & Nusbaum, H.C. (2018). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. *Annual Meeting of the Psychonomic Society*, New Orleans, LA
- [12] **Van Hedger, S.C.**, Heald, S.L.M., Huang, A., Rutstein, B., & Nusbaum, H.C. (2016). Telling in-tune from out-of-tune: Widespread evidence for implicit absolute intonation. *Annual Meeting of the Psychonomic Society*, Boston, MA
- [13] Van Hedger, S.C., Heald, S.L., Wu, S., & Nusbaum, H.C. (2015). Judging the absolute pitch of novel recordings of familiar songs. *Annual Meeting of the Psychonomic Society*, Chicago, IL
- [14] **Van Hedger, S.C.**, Heald, S.L., Nusbaum, H.C. (2015). The effects of acoustic variability on absolute pitch categorization: Evidence for contextual tuning. *Acoustical Society of America* 170th Meeting. Jacksonville, FL
- [15] **Hedger, S.C.,** Nusbaum, H.C., Lescop, O., Wallisch, P., Hoeckner, B. (2013). Music can elicit a visual motion aftereffect: Evidence from behavior and fMRI. *Auditory Cognitive Neuroscience Society Meeting*, Tucson, AZ
- [16] **Hedger, S.C.,** Heald, S.L., Nusbaum, H.C. (2012). Absolute pitch may not be so absolute. *Annual Meeting of the Psychonomic Society,* Minneapolis, MN
- [17] **Hedger, S.C.,** Nusbaum, H.C., Lescop, O., Wallisch, P., Hoeckner, B. (2012). Music can elicit a visual motion aftereffect. *Association for Psychological Science Convention*, Chicago, IL
- [18] **Hedger, S.C.,** Palmer, C., Hogstrom, A., Nusbaum, H.C. (2012). The effects of sleep-dependent consolidation on motoric and abstract learning in music. *Midwest Cognitive Science Meeting*. Indiana University, Bloomington, IN

^{*} Trainee

WORKSHOPS

- [1] HAP Lab Public Workshops (Huron University)
 Title: "Getting Started with jsPsych"
 - Video tutorial series, publicly available on YouTube
- [2] BrainsCAN Computational Core Methods Lunch (University of Western Ontario)
 Title: "An introduction to running web-based experiments using PsychoPy, jsPsych, and Pavlovia"
 Co-Presenter: J. Paul Minda
- [3] **Nissl Lab Group** (*University of Western Ontario*)
 Title: "Best practices in conducting auditory experiments over the web"

INVITED TALKS

- [1] **Van Hedger, S.C.** (2024). Exploring the nature of pitch representations in the general population. *Charity Chords Melodic Minds Speaker Series*. University of Western Ontario. London, ON
- [2] **Van Hedger, S.C.** (2023). Absolute pitch memory in adulthood. *Charity Chords Melodic Minds Speaker Series*. University of Western Ontario. London, ON
- [3] **Van Hedger, S.C.** (2021). Memory for absolute pitch in the general population. *Eastman/Rochester/Cornell/Buffalo Music Cognition Symposium*. Eastman School of Music. Rochester, NY
- [4] **Van Hedger, S.C.** (2020). Perceptual understanding in a variable world: Insights from music and speech. Huron University. London, ON
- [5] **Van Hedger, S.C.** (2020). What can pop songs tell us about representations of musical pitch? *Graduate Student Colloquium*. University of Western Ontario. London, ON
- [6] **Van Hedger, S.C.** (2019). Absolute pitch can be trained in some high-auditory working memory adults. *The 5th Learning and Plasticity (LaP) Meeting*. Äkäslompolo, Finland
- [7] **Van Hedger, S.C.** (2016). Pitch memory in adulthood: Individual differences, generalizations, and abstractions. *Musical Learning across the Lifespan Workshop*. University of Western Ontario. London, ON
- [8] **Van Hedger, S.C.** (2015). Telling sharp from flat: Pitch memory in the general population. DePauw University. Greencastle, IN
- [9] **Van Hedger, S.C.** (2015). Developing a framework for musical understanding. The University of Chicago. Chicago, IL