

# Melanie L. Shoup-Knox

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## Education

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**PhD**, University at Albany, State University of New York, Albany, NY, 2011

**Psychology, Behavioral Neuroscience**

Dissertation: *The Physiology of Yawning: Proximate Mechanisms Supporting an Ultimate Function*

Advisor: Dr. Gordon G. Gallup, Jr.

**B.S.**, University of Pittsburgh, Pittsburgh, PA, 2005

**Psychology and Anthropology, Magna Cum Laude**

Honors Thesis: *Olfactory Comfort: Prevalence and Function of Smell within Relationships*

Advisor: Dr. Donald H. McBurney

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## Teaching Experience

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**Associate Professor** James Madison University, 2014 – current  
Biopsychology  
General Psychology  
Evolutionary Psychology Senior Capstone  
Graduate Neuroscience  
Research Methods

**Assistant Professor** Youngstown State University, 2012 – 2014  
Physiological Psychology  
Physiological Psychology Lab  
Research Methods and Statistics, with Lab  
Comparative Psychology  
General Psychology

### Visiting

**Assistant Professor:** University of Pittsburgh, 2011 – 2012  
Introduction to Psychology  
Research Methods Lab  
Evolutionary Psychology

**Instructor:** State University of New York, New Paltz, 2011  
University at Albany, State University of New York, 2007 - 2010  
Schenectady County Community College, 2010 - 2011  
Johns Hopkins University, Center for Talented Youth, 2006

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## Recent Publications

\* Denotes undergraduate co-authors

\*Heymsfeld, S., \*Chang, M., \*Conner, S., \*Lang, J., & **Shoup-Knox, M. L.** (*under revision*), The sound of an honest signal: The role of FUT2 genes in women's voices, health, fertility, and fecundity. *EvoS Journal*.

**Shoup-Knox, M.L.**, \*Ostrander, G. (*under revision*) Measuring variation in women's vocal acoustics by menstrual cycle phase. *Auditory Perception and Cognition*.

**Shoup-Knox, M. L.**, \*Ostrander, G., \*Reimann, G., & Pipitone, R. N. (2019). Fertility-dependent acoustic variation in women's voices previously shown to affect listener physiology and perception. *Evolutionary Psychology*, 17 (2).

\*Ostrander, G., Pipitone, R. N., & Shoup-Knox, M. L. (2018). Interactions Between Observer and Stimuli Fertility Status: Endocrine and Perceptual Responses to intrasexual vocal fertility cues, *Hormones and Behavior*, 98, 191 – 197.

Shoup-Knox, M. L. & Pipitone, R. N. (2015). Physiological changes in response to hearing female voices recorded at high and low fertility, *Physiology and Behavior*, 139, 386 - 392.

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## Recent Presentations

\* Denotes undergraduate co-authors

Shoup-Knox, M., Andreu Zamora, M.\*, Lang, J.\*, Heymsfeld, S.\*, Conner, S.\*, Chang, M.\*, Al-Bizri, M.\* (2022, April) *Horton hears a cue: An examination of individual factors impacting listeners' ability to detect vocal ovulation cues.* Oral presentation at the NorthEastern Evolutionary Psychology Society conference, Pittsburgh, PA.

Shoup-Knox, M., Heymsfeld, S\*, Conner, S.\*, Lang, J.\*, Al-Bizri, M\*, Andreu Zamora, M.\*, and Chang, M.\* (2022, April) *I hear you have good genes: Connecting fertility genes to vocal quality and cyclic hormone changes in the voice.* Poster presented at the NorthEastern Evolutionary Psychology Society conference, Pittsburgh, PA.

Powell, A.G.\*, Ford, R.\*, Gott, E.\*, Kniffin, A.\*, Moseley, S.\*, Wright, V.\*, Zihal, E.\*, & Shoup-Knox, M.L. (2019, October). *The effects of antibiotics and probiotics on memory, depression, and the hippocampus.* Poster presented at the Society for Neuroscience Meeting, Chicago, IL.

Shoup-Knox, M. L., Howell, S.\*, Moseley, S.\*, Powell, A.\*, Wright, V.\*, Zihal, E.\* (2019, May). *Say what? The effects of fertility and speech content on men's hormonal responses to women's voices.* Poster presentation at Human Behavior and Evolution Society Conference, Boston, MA.

Shoup-Knox, M. L. (2019, April). *Let's talk about sex, literally. The role of the human voice in mating.* Invited speaker for Evolutionary Studies Seminar Series, SUNY New Paltz, NY.

Fogler, K. A., Shoup-Knox, M., Powell, A.\*, Brewster, J., Benza, B.\*, Hogan, K.\*, & Mangan, S.\* (2019, May) *Types of moral disengagement most influential with mock jurors.* Poster presentation at Association for Psychological Science, Washington DC.

\*Moseley, S., \*Howell, S., \*Powell, A., \*Zihal, E., & Shoup-Knox, M. L. (2018, April). *Physiological response to female voices during high and low fertility.* Poster presentation at Symposium for Young Neuroscientists and Professors of the South East (SYNAPSE), High Point, NC.

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## Grants, Proposals, and Awards

2023 Applicant: VIVA Open Course Grant

2023 Nominee: JMU Compass Award (as part of PUURPLE Scholars Committee)

2023 Awardee: JMU College of Health and Behavior Studies Outstanding Teacher Award.

2023 Awardee: Transition-to-OER Summer Program Stipend

2019 Departmental Nominee: JMU College of Health and Behavior Studies Outstanding Service Award.

2019 James Madison University College of Health and Behavior Studies Professional Development Grant (\$1000, Funded). Purchased research animals.

2019 Awardee: Psychological Sciences Graduate Student Counsel Award for Excellence in Service.

2018 James Madison University College of Health and Behavior Studies Teaching and Research Grant (\$4000, Funded) Purchased ELISA hormone testing kits.

2018 Mentor: Graduate Student Outstanding Thesis Award, James Madison University.

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## Service and Campus Involvement

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Member, Psychology Underserved Undergraduates Realizing the Potential through Learning Experiences (PUURPLE) Scholars Committee (Spring 2022 – Current)

Faculty Mentor, Summer Research Experience for Underrepresented Undergraduates (SREUU) (2021, 2022)

Faculty Advisor, Psi Chi JMU Chapter (Spring 2018 – current)

Member, IACUC, JMU (Fall 2016 – current)

Member, Annual Program Review, Department of Psychology (Fall 2021 – 2022)

Judge, Virginia Association for Psychological Science (Spring 2022)

Judge, Intel Shenandoah Valley Regional Science Fair (Spring 2016 – current) and Intel International Science Fair (Spring 2018)

Organizer, Psychological Sciences Graduate Student Roundtable, JMU (Summer 2016 – Spring 2019)

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## Professional Affiliations

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Psi Chi, International Honors Society in Psychology

Invited Chapter Editor, “Evolutionary Studies: Darwin’s Roadmap to the Curriculum” Oxford University Press.

Special Issue Guest Editor, *Frontiers in Evolutionary Neuroscience*, NEEPS Neuroscience Issue

Editorial Board, member, *Frontiers in Evolutionary Neuroscience*

Invited Reviewer, *Frontiers in Neuroscience Systems Biology*, *Journal of Sex Medicine*, *Evolutionary Psychology*, *Evolutionary Behavioral Sciences*, *Adaptive Human Behavior and Physiology*, *EVoS the Journal of the Evolutionary Studies Consortium*

NorthEastern Evolutionary Psychology Society, member (since 2007)

Human Behavior and Evolution Society, member (2005 – current)