

# JEREMY I. BORJON

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## EDUCATION & POSITIONS

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<b>Postdoctoral Fellow</b> <i>Indiana University, Bloomington, IN</i> Dept. of Psychological and Brain Sciences Advisors: Linda B. Smith & Chen Yu	2017 –
<b>Ph.D. in Psychology and Neuroscience</b> <i>Princeton University, Princeton, NJ</i> Dept. of Psychology & Princeton Neuroscience Institute Oral Committee: Asif A. Ghazanfar, Elizabeth Gould, & Casey Lew-Williams Reading Committee: Asif A. Ghazanfar, Michael S.A. Graziano, & Jordan A. Taylor Dissertation Title: “Autonomic nervous system dynamics and primate vocal production”	2012 – 2017
<b>M.A. in Psychology</b> <i>Princeton University, Princeton, NJ</i> Dept. of Psychology & Princeton Neuroscience Institute Advisor: Asif A. Ghazanfar Thesis Title: “Cardiorespiratory coupling during vocal communication in the common marmoset”	2012 – 2014
<b>Simons Fellow in Computational Neuroscience</b> <i>Emory University School of Medicine, Atlanta, GA</i> Marcus Autism Center <i>Yale University School of Medicine, New Haven, CT</i> Child Study Center Advisors: Ami Klin & Warren R. Jones	2011 – 2012 2010 – 2011
<b>A.B. in Psychology, with certificate in Neuroscience</b> <i>Princeton University, Princeton, NJ</i> Advisors: Asif A. Ghazanfar & Alexander Todorov Thesis Title: “The influence of eye gaze and facial expression on spatial hearing”	2006 – 2010

## RESEARCH GRANTS AND FELLOWSHIPS

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NICHD Training Program in Integrative Developmental Process (T32)	2017 –
Emerging Areas of Research Initiative, Indiana University	2017 –
NSF Graduate Research Fellowship (Awarded in April 2012)	2014 – 2017
President’s Fellowship, Princeton University	2012 – 2014
Simons Fellowship in Computational Neuroscience	2010 – 2012
Round Table Senior Thesis Grant, Office of the Dean of the College, Princeton University	2009 – 2010

## PUBLICATIONS

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† = equal contribution    \* = corresponding author

### RESEARCH REPORTS

Gustison M.L., **Borjon J.I.**, Takahashi D.Y., Ghazanfar A.A. (Under Revision). Coordination of vocal and locomotor behavior emerges in development as a function of arousal state. *eLife*.

**Borjon J.I.** †\*, Abney D.H. †\*, Smith L.B., Yu C. (2018). Developmentally changing attractor dynamics of manual actions on objects in late infancy. *Complexity*. 2018, 4714612.

**Borjon J.I.**, Takahashi D.Y., Cordero D.C., Ghazanfar, A.A. (2016). Arousal dynamics drive vocal production in marmoset monkeys. *Journal of Neurophysiology*. 116, 753-764.

Takahashi D.Y., Fenley A.R., Teramoto Y., Narayanan D.Z., **Borjon J.I.**, Holmes P., Ghazanfar A.A. (2015). The developmental dynamics of marmoset monkey vocal production. *Science*. 349(6249), 734-8.

**Borjon J.I.** †, Shepherd S.V. †, Todorov A., Ghazanfar A.A. (2011). Eye-gaze and arrow cues influence elementary sound perception. *Proceedings of the Royal Society B*. 278, 1997-2004.

## REVIEWS & COMMENTARIES

**Borjon J.I.**, Ghazanfar A.A. (2014). Convergent evolution of vocal cooperation without convergent evolution of brain size. *Brain, Behavior and Evolution*. 84(2), 93–102.

**Borjon J.I.**, Ghazanfar A.A. (2013). Neural tuning of human face processing. *Proceedings of the National Academy of Sciences of the United States of America*. 110(42), 16702–3.

## METHODS PAPERS

Slone L.K., Abney D.H., **Borjon J.I.**, Chen C., Percy D., Suarez-Rivera C., Zhang Y., Smith L.B., Yu C. (2018). Gaze in action: Head-mounted eye tracking of children’s dynamic visual attention during naturalistic behavior. *Journal of visualized experiments: JoVE*. (141), e58496.

**Borjon J.I.** †\*, Schroer S.E.†, Bambach S., Slone L.K., Abney D.H., Crandall D.J., Smith L.B. (2018). A view of their own: Capturing the egocentric view of infants and toddlers with head-mounted cameras. *Journal of visualized experiments: JoVE*. (140), e58445.

## BOOK CHAPTERS

Ghazanfar A.A., Takahashi D.Y., Zhang Y.S., **Borjon, J.I.** (2018). Marmoset monkey vocal communication: Common trajectories with humans and possible mechanisms. In J. Ellison & M. Sera (Eds.). *The Minnesota Symposia on Child Psychology*, Vol. 39. Hoboken: John Wiley & Sons, Inc.

## INVITED TALKS

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Annual Developmental Seminar, Dept. of Psychological and Brain Sciences, Indiana University, Bloomington, IN		2017 – 2018
Annual Graduate Cognitive Research Seminar, Princeton University, Princeton, NJ		2013 – 2017
Huberman Lab, Dept. of Neurobiology, Stanford University, Palo Alto, CA	December	2016
Smith Lab, Dept. of Psychological and Brain Sciences, Indiana University, Bloomington, IN	November	2016
Leopold Lab, Laboratory of Neuropsychology, National Institutes of Health, Bethesda, MD	August	2016
Princeton Research Day, Princeton University, Princeton, NJ	May	2016
Klin Lab, Emory University School of Medicine, Marcus Autism Center, Atlanta, GA	March	2016
PSY/NEU 260 Life Cycle of Behaviors, Princeton University, Princeton, NJ	May	2014
Eskandar Lab, Massachusetts General Hospital, Harvard Medical School, Boston, MA	March	2012

## CONFERENCE PRESENTATIONS

**Borjon J.I.**, Abney D.H., Mendez A., Yu C., Smith L.B. (2019, March). The Sensorimotor Coordination of Vocal Production in Late Infancy. Biennial Meeting of the Society for Research in Child Development. Baltimore, MD. Poster.

**Borjon J.I.**, Abney D.H., Smith L.B., Yu C. (2019, March). Developmentally changing attractor dynamics of manual actions on objects in late infancy. Biennial Meeting of the Society for Research in Child Development. Baltimore, MD. Poster.

Gustison, M.L., **Borjon, J.I.**, Takahashi, D.Y., Ghazanfar, A.A. (2018, August). Energy mediates developmental interactions between vocal, postural and locomotor behaviors in marmoset monkeys. 55th Annual Conference of the Animal Behavior Society, Milwaukee, WI. Poster.

**Borjon, J.I.**, Abney D.H., Yu C., Smith L.B. (2018, July). The sensorimotor development of naturalistic looking behavior in infants. International Congress for Neuroethology, Brisbane, QLD. Poster.

**Borjon, J.I.**, Abney D.H., Yu C., Smith L.B. (2018, July). The sensorimotor development of naturalistic looking behavior in infants. International Congress of Infancy Studies, Philadelphia, PA. Poster.

**Borjon J.I.**, Takahashi D.Y., Cordero D.C., Ghazanfar, A.A. (2015, October). Cardiorespiratory dynamics of vocal production in marmoset monkeys. Society for Neuroscience Annual Meeting, Chicago, IL. Poster.

**Borjon J.I.**, Takahashi D.Y. and Ghazanfar A.A. (2013, October) Vocal-respiratory coupling in marmoset monkeys. Society for Neuroscience Annual Meeting, San Diego, CA. Poster.

**Borjon J.I.**, Trubanova A., Shepherd S.V., Jones W., Klin A., Ghazanfar A.A. (2012, March). Socially contextualized multisensory integration processing in autism. International Meeting for Autism Research, Toronto, ON. Poster.

**Borjon J.I.**, Goursaud A.P., Jones W., Bachevalier J. (2011, May). Social monitoring in rhesus monkeys with lesions to either the amygdala, hippocampus, or orbitofrontal cortex. International Meeting for Autism Research, San Diego, CA. Talk.

**Borjon J.I.**, Shepherd S.V., Jones W., Klin A., Ghazanfar A.A. (2011, May). The influence of perceived gaze cues on elementary sound perception in individuals with autism. International Meeting for Autism Research, San Diego, CA. Poster.

**Borjon J.I.**, Shepherd S.V., Todorov A., Ghazanfar A.A. (2010, October). Social cues influence elementary sound perception. Social and Affective Neuroscience Society Annual Meeting, Chicago, IL. Poster.

**Borjon J.I.**, Shepherd S.V., Todorov A., Ghazanfar A.A. (2010, May). Observed eye gaze influences elementary sound perception. Princeton University Undergraduate Research Symposium, Princeton, NJ. Poster.

## ACADEMIC HONORS AND AWARDS

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Sigma Xi Scientific Research Society	2010
Edward E. Jones Memorial Senior Thesis Prize, Dept. of Psychology, Princeton University	2010
3 <sup>rd</sup> Place Undergraduate Research Symposium, Princeton University	2010
Class Day Student Speaker, Dept. of Psychology, Princeton University	2010
Early Concentration, Dept. of Psychology, Princeton University	2008
Outstanding Work by a Sophomore (Fiction), Peter B. Lewis Center for the Arts, Princeton University	2008
Walter E. Hope Class of 1901 Memorial Freshman Debate, Finalist, Princeton University	2007

## SERVICE

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Mentor, Office of the Vice President for Diversity, Equity, and Multicultural Affairs, Indiana University	2018 –
Treasurer, Association of Latino Princeton Alumni	2018 –
Board Member, Association of Latino Princeton Alumni	2017 –
President, Latino Graduate Student Association, Princeton University	2015 – 2016
ReMatch Graduate Mentor, Office of Undergraduate Research, Princeton University	2015 – 2016
Graduate Representative, Hidden Minority Council, Princeton University	2015 – 2016
Outreach Chair, Latino Graduate Student Association, Princeton University	2014 – 2015
Graduate Representative, Dept. of Psychology, Princeton University	2012 – 2015

## PROFESSIONAL MEMBERSHIPS

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Society for Research in Child Development  
International Society for Neuroethology  
International Congress of Infant Studies  
National Postdoctoral Association  
Society for the Advancement of Native Americans and Chicanos in Science

## SKILLS

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MATLAB computer programming for data analysis, R Programming Language, Python, SQL, SPSS/PASW, Presentation, Adobe Creative Suite, Apple Final Cut Pro, Microsoft Office

## LANGUAGES

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Fluent in English and Spanish