

# Greg Jensen

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## Education

- B.A. Psychology, Reed College, May 2003.
- M.A. Psychology, Columbia University, October 2011.
- M.Phil. Psychology, Columbia University, May 2013.
- Ph.D. Psychology, Columbia University, May 2014.

## Employment

- Columbia University (Psychology: Adjunct Associate Research Scientist) 2017–Present.
- Columbia University (Psychology: Lecturer In Discipline) 2016–2017.
- Columbia University Medical Center (Neuroscience: Postdoctoral Research Scientist) 2014–2016.
- Columbia University (Psychology: Part Time Lecturer) 2014–2016.
- Reed College (Psychology: Lab Manager) 2004–2009.

## Teaching Experience

### *Instructor*

- Science of Psychology (Fall 2016/Spring 2017).
- Introduction to Statistics for Behavioral Scientists (Fall 2014, Fall 2015/Spring 2016, Fall 2016/Spring 2017).
- Animal Behavior (Spring 2017).
- Advanced Statistical Inference (Fall 2016).
- Summer Statistics Workshop (Summer 2015).

### *Lab Instructor*

- Introduction to Statistics for Behavioral Scientists (Fall 2013).
- Experimental Psychology: Human Behavior (Fall 2011).

## Publications

### *Journal Articles & Book Chapters*

- **Jensen G.** (2018). Behavioral stochasticity. In Vonk J, Shackelford T (Eds), *Encyclopedia of Animal Cognition and Behavior*. Springer. doi: 10.1007/978-3-319-47829-6\_1520-1.
- Altschul D, **Jensen G**, Terrace HS. (2017). Perceptual category learning of photographic and painterly stimuli in rhesus macaques (*Macaca mulatta*) and humans. *PLoS ONE*, 12, e0185576.
- **Jensen G.** (2017). Herbert Terrace. In Vonk J, Shackelford T (Eds), *Encyclopedia of Animal Cognition and Behavior*. Springer. doi: 10.1007/978-3-319-47829-6\_927-1.
- **Jensen G.** (2017). Serial learning. In Call J, Burghardt GM, Pepperberg IM, Snowdon CT, Zentall T (Eds), *The APA Handbook of Comparative Psychology, Vol. 2* (pp. 385-409). American Psychological Association.
- **Jensen G**, Alkan Y, Muñoz F, Ferrera VP, Terrace HS. (2017). Transitive inference in humans (*Homo sapiens*) and rhesus macaques (*Macaca mulatta*) after massed training of the last two list items. *Journal of Comparative Psychology*, doi: 10.1037/com0000065.
- Tanner N, **Jensen G**, Ferrera VP, Terrace HS. (2017). Inferential learning of serial order of perceptual categories by rhesus monkeys (*Macaca mulatta*). *Journal of Neuroscience*, 37, 6268-6276.
- Avlar B, Kahn J, **Jensen G**, Kandel E, Simpson E, Balsam P. (2015). Improving temporal cognition by enhancing motivation. *Behavioral Neuroscience*, 129, 576-588.
- Bailey MR, **Jensen G**, Taylor K, Mezas C, Williamson C, Silver R, Simpson EH, & Balsam PD. (2015). A novel strategy for dissecting goal-directed action and arousal components of motivated behavior. *Behavioral Neuroscience*, 129, 269-280.
- **Jensen G**, Altschul D. (2015) Two perils of binary categorization: Why the study of concepts can't afford true/false testing. *Frontiers in Psychology*, 6, Article 168.
- **Jensen G**, Muñoz F, Alkan Y, Ferrera VP, Terrace HS. (2015). Implicit value updating explains transitive inference performance: The betasort model. *PLOS Computational Biology*, 11, e1004523.
- Avdagic E, **Jensen G**, Altschul D, Terrace HS. (2014). Rapid cognitive flexibility of rhesus macaques performing psychophysical task-switching. *Animal Cognition*, 17, 619-631.
- **Jensen G.** (2014). Compositions and their application to the analysis of choice. *Journal of the Experimental Analysis of Behavior*, 102, 1-25.
- **Jensen G**, Stokes PD, Paterniti A, Balsam PD. (2014). Unexpected downshift in reward magnitude induces variation in human behavior. *Psychonomic Bulletin & Review*, 21, 436-444.
- Morè L, **Jensen G.** (2014). Acquisition of conditioned responding in a multiple schedule depends on the reinforcement's temporal contingency with each stimulus. *Learning & Memory*, 21, 258-262.
- **Jensen G**, Altschul D, Danly E, Terrace HS. (2013). Transfer of a serial representation between two distinct tasks by Rhesus macaques. *PLOS ONE*, 8, e70285.
- **Jensen G**, Altschul D, Terrace HS. (2013). Monkeys would rather see *and* do: Preference for agentic control in Rhesus macaques. *Experimental Brain Research*, 3, 429-442.
- **Jensen G**, Ward RD, Balsam PD. (2013). Information: Theory, Brain, and Behavior. *Journal of the Experimental Analysis of Behavior*, 100, 408-431.

- Neuringer A, **Jensen G.** (2013). Operant variability. In GJ Madden (Ed) *The APA Handbook of Behavior Analysis* (Vol. 1., pp. 513-546). American Psychological Association.
- **Jensen G**, Miller C, Neuringer A. (2012). Truly random operant responding: Results and reasons. In T Zentall & E Wasserman (Eds), *The Oxford Handbook of Comparative Cognition* (2nd ed., pp. 652-673). Oxford University Press.
- Neuringer A, **Jensen G.** (2012). The predictably unpredictable operant. *Comparative Cognition & Behavior Reviews*, 7, 55-84.
- Ward RD, Gallistel CR, **Jensen G**, Richards VL, Fairhurst S, Balsam PD. (2012). Conditioned stimulus informativeness governs conditioned stimulus-unconditioned stimulus associability. *Journal of Experimental Psychology: Animal Behavior Processes*, 38, 217-232.
- Neuringer A, **Jensen G.** (2010). Operant variability and voluntary action. *Psychological Review*, 117(3), 972-993.
- **Jensen G**, Neuringer A. (2009). Barycentric extension of generalized matching. *Journal of the Experimental Analysis of Behavior*, 92(2), 139-159.
- **Jensen G**, Neuringer A. (2008). Choice as a function of reinforcer “hold”: From probability learning to concurrent reinforcement. *Journal of Experimental Psychology: Animal Behavior Processes*, 34(4), 437-460.
- Rothstein J, **Jensen G**, Neuringer A. (2008). Human choice among five alternatives when reinforcers decay. *Behavioural Processes*, 78, 231-239.
- **Jensen G**, Neuringer A, Piff P. (2007). Stochastic matching and the voluntary nature of choice. *Journal of the Experimental Analysis of Behavior*, 88(1), 1-28.

### Theses

- **Jensen G.** (2014). *Beyond dichotomy: Dynamics of choice in compositional space*. Columbia University, ProQuest, UMI Dissertations Publishing, 3620884.
- **Jensen GG.** (2003). *Mechanisms and variables involved in aptitude for random generation*. Reed College Digital Collections, OCLC# 268896558.

### Work In Progress

- **Jensen G.** (2018). Choice under conditions of uncertainty: Methods for Analyzing the Structure of Behavior. *PsyArXiv*, doi: 10.31234/osf.io/579p8.
- **Jensen G**, Alkan Y, Ferrera VP, Terrace HS. (2018). Reward associations do not explain transitive inference performance in monkeys. *PeerJ PrePrints*, 6, e26889v2.
- Kao T, **Jensen G**, Michaelcheck C, Ferrera VP, Terrace HS. (2018). Absolute and relative knowledge of ordinal position. *PeerJ PrePrints*, 6, e26453v1.
- **Jensen G**, Muñoz F, Ferrera VP. (2016). Learning in spike trains: Estimating within-session changes in firing rate using weighted interpolation. *bioRxiv*, doi: 10.1101/041301.
- **Jensen G.** (2015). Kernel Probability Estimation For Binomial And Multinomial Data. *PeerJ PrePrints*, 3, e1406.
- **Jensen G.** (2013). Closed-form estimation of multiple change-point models. *PeerJ PrePrints*, 1, e90v3.

- **Jensen G.** (Under Review). Behavioral Stochasticity. In Vonk J, Shackelford T (Eds), *Encyclopedia of Animal Cognition and Behavior*. Springer.
- **Jensen G**, Altschul D, Terrace HS. (In Preparation). Comparative transfer of serial representation in humans and rhesus macaques.
- **Jensen G.** (In Preparation). Comparative evaluation of change-point analyses using receiver-operator characteristic functions.

### *Addresses & Colloquia*

- **Jensen G**, Freestone D. (July 6th, 2017). "How 'reinforcement' was stolen, and how to steal it back." At the University of Nebraska Medical Center, Omaha.
- **Jensen G**, Freestone D. (August 5th, 2016). "Computational Prometheus: Stealing 'reinforcement' back from computer science." At the American Psychological Association, New York.
- **Jensen G.** (February 29, 2016). "Serial learning: A cognitive take on preference and expected value." At the Department of Psychology Monday Seminar, Columbia University.
- Terrace HS, **Jensen G.** (April 18, 2015). "Concept learning of ecological and artificial stimuli in rhesus macaques." At the Society of Experimental Psychologists, Charlottesville.
- Neuringer A, **Jensen G.** (May 24, 2014). "Similarity of choices under concurrent and operant-variability schedules of reinforcement." At the Association for Behavior Analysis International, Chicago.
- **Jensen G.** (March 15, 2014). "Unifying choice and preference models within the compositional sample space." At the Eastern Psychological Association, Boston.
- Bailey M, **Jensen G**, Taylor K, Simpson E, Mezas C, Williamson C, Silver R, Balsam P. (March 14, 2014). "Differentiating goal-directed motivation from arousal with a novel progressive hold down (PHD) task." At the Eastern Psychological Association, Boston.
- **Jensen G.** (February 17, 2014). "Compositions: Modeling the dynamics of repeated choice." At the Department of Psychology Monday Seminar, Columbia University.
- **Jensen G**, Balsam P. (March 2, 2013). "Matching with more than two alternatives: Adding options increases sensitivity to rewards." At the Eastern Psychological Association, New York.
- **Jensen G**, Neuringer A. (May 22, 2009). "Extending generalized matching." At the Society for Quantitative Analyses of Behavior, Phoenix.
- Neuringer A, **Jensen G.** (May 25, 2008). "Voluntary choice is characterized by functional combinations of stochasticity and predictability." At the Society for Quantitative Analyses of Behavior, Chicago.
- Neuringer A, **Jensen G**, Piff P. (May 26, 2006). "Operant variability theory of voluntary action." At the Society for Quantitative Analyses of Behavior, Atlanta.
- Neuringer A, Miller C, **Jensen G.** (May 28, 2004). "Reasons to respond randomly." At the Society for Quantitative Analyses of Behavior, Boston.

*Research Reports & Posters*

- Ferrera VP, **Jensen G**, Alkan Y, Terrace HS. (Projected 2018). Reward Associations Do Not Explain Performance on Transitive Inference Tasks in Monkeys. At the Society for Neuroscience, November 2018 San Diego.
- Kao T, Journey B, Michaelcheck CE, Ferrera VP, Terrace HS, **Jensen G**. (2017). Knowledge of ordinal position across lists following transitive inference training. At the Society for Neuroscience, November 2017 Washington D.C.
- Muñoz F, **Jensen G**, Ferrera VP. (2017). Gaussian process regression for inferring the temporal evolution of neuronal activity during within-session learning in monkeys. At the Society for Neuroscience, November 2017 Washington D.C.
- Muñoz F, **Jensen G**, Kennedy BC, Ferrera VP, Terrace HS. (2015). Tracking changes in spike rates as a function of task covariates within a single session. At the Society for Neuroscience, October 2015 Chicago.
- **Jensen G**, Muñoz F, Alkan Y, Ferrera VP, Terrace HS. (2015). Betasort: A computational model for serial learning. At the Society for Neuroscience, October 2015 Chicago.
- **Jensen G**, Joiner J, Kennedy BC, Muñoz F, Krishnan S, Ferrera VP, Terrace HS. (2014). Implicit learning of serial order in humans and monkeys. At the Society for Neuroscience, November 2014 Washington D.C.
- **Jensen G**, Joiner J, Kennedy BC, Muñoz F, Krishnan S, Ferrera VP, Terrace HS. (2014). Implicit learning of serial order in humans and monkeys. At the Society for Neuroscience, November 2014 Washington D.C.
- Kennedy BC, **Jensen G**, Joiner J, Muñoz F, Terrace HS, Ferrera VP. (2014). Neural correlates of implicit serial learning in posterior parietal cortex in monkeys. At the Society for Neuroscience, November 2014 Washington D.C.
- Bailey MR, **Jensen G**, Taylor K, Mezas C, Williamson C, Simpson EH, Balsam PD. (2014). Improving how we measure motivation: Dissociating goal-directed responding from arousal-induced responding with a novel progressive hold down task. At the Society for Neuroscience, November 2014 Washington D.C.
- **Jensen G**, Taylor KM, Balsam P. (2012). Using response stereotypy to detect the emergence of a habit and persistence during extinction. At the Pavlovian Society, September 2012 Jersey City.
- **Jensen G**, Taylor KM, Balsam P. (2012). Using response stereotypy to detect the emergence of habit. At the Society for Quantitative Analyses of Behavior, May 2012 Denver.
- **Jensen G**, Balsam P, Gallistel CR, Taylor KM, Yohe Moore E. (2011). Choice-by-choice matching. At the Society for Quantitative Analyses of Behavior, May 2011, Denver.
- Cannizzaro DL, Taylor KM, Gallistel CR, Yohe Moore E, **Jensen G**, Balsam P. (2011). Timing and inhibitory learning. At the Society for Quantitative Analyses of Behavior, May 2011, Denver.
- **Jensen G**, Neuringer A. (2010). Effects of feedback. At the Society for Quantitative Analyses of Behavior, May 2010, Austin.
- **Jensen G**, Neuringer A. (2008). Quantifying bias. At the Society for Quantitative Analyses of Behavior, May 2008, Chicago.

- **Jensen G**, Rothstein J, Neuringer A. (2007). Effects of temporary availability of reinforcers under concurrent schedules of reinforcement. At the Society for Quantitative Analyses of Behavior, May 2007, San Diego.
- Rothstein J, **Jensen G**, Neuringer A. (2007). A real-time procedure for the study of human choice. At the Society for Quantitative Analyses of Behavior, May 2007, San Diego.
- **Jensen G**, Neuringer A. (2006). Choice by pigeons under concurrent schedule when reinforcement availability and disappearance are both probabilistically controlled by responses. At the Society for Quantitative Analyses of Behavior, May 2006, Atlanta.

### *Professional Organizations, Societies, and Services*

#### Organization Memberships

- **Member**, Society for Neuroscience (06/2014 – Present).
- **Member**, Society for the Quantitative Analysis of Behavior (05/2006 – Present).

#### Editorial

- **Editorial Board Member**, *Journal of the Experimental Analysis of Behavior* (2014-2020).
- **Ad Hoc Reviewer**, *Adaptive Behavior*, *Animal Cognition*, *Behavior Research Methods*, *Behavioural Processes*, *Journal of Experimental Psychology: Animal Learning & Cognition*, *Learning & Behavior*, *Physiology & Behavior*, *PLOS ONE*, *PNAS*, *Primates*, *Psychonomic Bulletin & Review*.
- Details on peer review activity described in Publons profile.

#### Numerical

- **Erdős Number**: 4 (Erdős→Kleitman→Lander→Kandel→Jensen).
- **Bacon Number**: 6 (Bacon→Gosling→Hershlag→Boas→Carey→Gallistel→Jensen).

### *Honors & Awards*

- Columbia University Presidential Teaching Award For Faculty (2017) Finalist (top 1% of nominees)
- B. F. Skinner New Researcher Award for Basic Research (2016).

Last updated: July 27, 2018

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