

MICHAEL S. PRATTE

CURRICULUM VITAE

Department of Psychology
Mississippi State University
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EDUCATION

2007-2010 Ph.D. in Psychology, University of Missouri, Columbia
Dissertation: *Assessing single- and dual-process accounts of recognition memory using hierarchical bayesian models*

2004-2007 M.A. in Psychology, University of Missouri, Columbia
Master's Thesis: *Subliminal priming as a task-characteristic artifact*

2000-2004 B.A. in Psychology, University of Missouri, Columbia
Honor's Thesis: *A double prime test of spreading activation*

ACADEMIC APPOINTMENTS

2015 - Present Assistant Professor, Mississippi State University

2010 - 2015 Postdoctoral Fellow, Vanderbilt University, Adviser Frank Tong

FUNDING

2017 - 2019 NIH R15, Academic Research Enhancement Award (AREA),
National Institute of Mental Health.
Mechanisms and Neural Correlates of Iconic Memory Decay

2012 - 2015 NIH F32 Postdoctoral Research Service Award (NRSA),
National Eye Institute.
Continuously decoding visual perception and working memory

PUBLICATIONS

- Pratte, M.S.**, Park, Y.P. , Rademaker, R.L. & Tong, F. (2017) Accounting for stimulus-specific variation in precision reveals a discrete capacity limit in visual working memory. *Attention, Perception & Psychophysics*, 46, 6–17.
- Pratte, M.S.** & Tong, F. (2016). Integrating Theoretical Models with Functional Neuroimaging. *Journal of Mathematical Psychology*, 76, 80–93.
- Pratte, M.S.**, Sy, J.L., Swisher, J.D. & Tong, F. (2016). Radial bias is not necessary for orientation decoding. *NeuroImage*, 127, 23–33.
- van Bergen, R.S., Ma, W.J., **Pratte, M.S.** & Jehee, J.F.M. (2015). Sensory uncertainty decoded from visual cortex predicts behavior. *Nature Neuroscience*, 18, 1728–1730.
- Ling, S., **Pratte, M.S.** & Tong, F. (2015). Attention alters orientation processing in the human LGN. *Nature Neuroscience*, 18, 496–498.
- Lorenc, E.S., **Pratte, M.S.**, Angeloni, C.F. & Tong, F. (2014). Expertise for upright faces improves the precision but not the capacity of visual working memory. *Attention, Perception & Psychophysics*. 76, 1975–1984.
- Rouder, J. N., Morey, R. D., & **Pratte, M. S.** (in press). Hierarchical bayesian models. In W. H. Batchelder, H. Colonius, E. Dzhafarov, and J. I. Myung, (Eds.), *The new handbook of mathematical psychology, Volume 1: Measurement and methodology*. London: Cambridge University Press.
- Pratte, M.S.** & Tong, F. (2014). Spatial specificity of working memory representations in the early visual cortex. *Journal of Vision*. 14, 1–12.
- Pratte, M.S.**, Ling, S., Swisher, J.D. & Tong, F. (2013). How attention extracts objects from noise. *Journal of Neurophysiology*. 110, 1346–1356.
- Pratte, M.S.** & Rouder, J.N. (2012). Assessing the dissociability of recollection and familiarity in recognition memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 38, 1591–1607.
- Tong, F. & **Pratte, M.S.** (2012). Decoding patterns of human brain activity. *Annual Review of Psychology*. 63, 483–509.
- Pratte, M.S.** & Rouder, J.N. (2011). Hierarchical single- and dual-process models of recognition memory. *Journal of Mathematical Psychology*. 55, 36–46
- Morey, R.D., Rouder, J.N., **Pratte, M.S.**, & Speckman, P.L. (2011). Using MCMC chain outputs to efficiently estimate Bayes factors. *Journal of Mathematical Psychology*. 55, 368–378.

- Thiele, J., **Pratte, M.S.**, Rouder, J.N. (2011). On perfect working-memory performance with large numbers of items. *Psychonomic Bulletin & Review*. 18, 958–963.
- Pratte, M.S.**, Rouder, J.N., & Morey, R.D. (2010). Separating mnemonic process from participant and item effects in the assessment of ROC asymmetries. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 36, 224–232.
- Pratte, M.S.**, Rouder, J.N., Morey, R.D., & Feng, C. (2010). Exploring the differences in distributional properties between Stroop and Simon effects using delta plots. *Attention, Perception, & Psychophysics*. 72, 2013–2025.
- Rouder, J.N., Yue, Y., Speckman, P.L., **Pratte, M.S.**, & Province, J.M. (2010). Gradual growth vs. shape invariance in perceptual decision making. *Psychological Review*. 117, 1267 – 1274.
- Rouder, J.N., **Pratte, M.S.**, & Morey, R.D. (2010). Latent mnemonic strengths are latent: A comment on Mickes, Wixted, and Wais (2007). *Psychonomic Bulletin & Review*. 17, 427 – 435.
- Pratte, M.S.** & Rouder, J.N. (2009). A task-difficulty artifact in subliminal priming. *Attention, Perception, & Psychophysics*, 71, 1276-1283.
- Rouder, J.N., Speckman, P.L., Steinley, D., **Pratte, M.S.**, & Morey, R.D. (2009). A bootstrap test of shape invariance across distributions. *Current methodological developments of statistics in the social sciences*. 159–174. (Wiley, New York).
- Morey, R.D., **Pratte, M.S.**, & Rouder, J.N. (2008). Problematic effects of aggregation in z ROC analysis and a hierarchical modeling solution. *Journal of Mathematical Psychology*, 52, 376-388.
- Rouder, J.N., Morey, R.D., Cowan, N., Zwilling, C.E., Morey, C.C., & **Pratte, M.S.** (2008). An assessment of fixed-capacity models of visual working memory. *Proceedings of the National Academy of Science*, 105, 5975-5979.
- Speckman, P., Rouder, J.N., Morey, R.M., & **Pratte, M.S.** (2008). Delta plots and coherent distribution ordering. *American Statistician*, 62, 262-266.
- Rouder, J.N., Morey, R.D., Speckman, P., & **Pratte, M.S.** (2007). Detecting chance: A solution to the null sensitivity problem in subliminal priming. *Psychonomic Bulletin & Review* 14, 597 - 605.

PRESENTATIONS

- Bruning, A.L. & Pratte, M.S. (2017). Decoding the Contents of Working Memory Using EEG Provides Evidence For the Sensory Recruitment Hypothesis. Poster presented at the annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Pratte, M.S., Ling, S. & Tong, F. (2016). fMRI Pattern Similarity Analysis Reveals Oblique Effects Throughout The Human Visual Cortex. Poster presented at the annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Pratte, M.S. (2016). Iconic Memories Die a Sudden Death; They Do Not Gradually Fade Away. Paper presented at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Pratte, M.S., Park, Y.P., Rademaker, R.R. & Tong, F. (2015). Accounting For Variable Precision In Visual Working Memory Reveals A Discrete Capacity Limit . Paper presented at the annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Pratte, M.S., & Tong, F. (2014). The radial bias is not necessary for orientation decoding. Paper presented at the annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Pratte, M.S. (2014). Using fMRI to study feature and object representations in the visual cortex. Invited talk, Arizona State University.
- Pratte, M.S. (2014). Using fMRI to study feature and object representations in the visual cortex. Invited talk, University of California, Irvine.
- Pratte, M.S., & Tong, F. (2013). FMRI pattern analysis reveals rotation-invariant shape representation in the lateral occipital complex. Poster presented at the Society for Neuroscience, San Diego, CA.
- Pratte, M.S., & Tong, F. (2013). Assessing tilt illusions in human visual cortex using fMRI and multivariate pattern analysis. Paper presented at the annual meeting of the Vision Sciences Society, Naples, FL.
- Pratte, M.S., Ling, S., Swisher, J, & Tong, F. (2012). Cortical mechanisms underlying the attentional selection of objects embedded in visual noise. Paper presented at the annual meeting of the Vision Sciences Society, Naples, FL.
- Pratte, M.S. (2009). Assessing single factor models of recognition memory. Invited talk, Indiana University
- Pratte, M.S. & Rouder J.N. (2009). A single-factor model of recognition memory. Paper presented at the the Society for Mathematical Psychology, University of Amsterdam, Amsterdam.

Pratte, M.S. & Rouder, J.N. (2007). A task-difficulty artifact in subliminal priming. Poster presented at the Annual Meeting of the Psychonomic Society, South Beach, CA.

Pratte, M.S., Rouder, J.N., & Morey, R.D. (2007). A hierarchical model of signal detection. Paper presented at the Society for Mathematical Psychology, Irvine, CA.

Pratte, M.S., & Rouder, J.N. (2004). A double prime test of spreading activation. Poster presented at the Annual Meeting of the American Psychological Society, Chicago, IL.

TEACHING EXPERIENCE

Perception & Attention (undergraduate), Mississippi State University

Perception & Attention (graduate), Mississippi State University

Quantitative Methods III (graduate), Mississippi State University

Cognitive Psychology (undergrad), Mississippi State University

Statistical Methods in Psychology (undergraduate), University of Missouri

Cognitive Psychology (undergraduate), University of Missouri

PROFESSIONAL SERVICE

Ad Hoc Reviewer:

Journal of Neuroscience

NeuroImage

Cerebral Cortex

Psychological Review

JEP: General

Psychological Science

Psychological Bulletin & Review

JEP: Learning, Memory & Cognition

Journal of Mathematical Psychology

Attention, Perception and Psychophysics

Journal of Vision

Journal of Cognitive Psychology

Psychological Research

Behavioral Research Methods

Acta Psychologica

Cognitive Neurodynamics

PLoS ONE