

## Alan M. Daniel

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### Positions held

Jan 2023-Present	Program Coordinator, Psychology, Texas A&M University–San Antonio
2022-Present	Associate Professor of Psychology, Texas A&M University–San Antonio
2017-2022	Assistant Professor of Psychology, Texas A&M University–San Antonio
2016-2017	Program Coordinator, Behavioral Science, Glenville State University
2015-2017	Associate Professor of Psychology, Glenville State University
2010-2015	Assistant Professor of Psychology, Glenville State University
2007-2010	Postdoctoral Associate, Rutgers, the State University of New Jersey

### Education

Ph.D. Texas Christian University, Fort Worth, TX December, 2007  
Experimental Psychology

M.S. Texas Christian University, Fort Worth, TX December, 2005  
Experimental Psychology

B.S. Texas Christian University, Fort Worth, TX December, 2002  
Major: Psychology    Minor: Biology

### Research Area

Behavioral Neuroscience, Comparative Psychology, Neuropharmacology

### Focus

Reward processing, reward loss, physical and psychological pain, the opioid system, genes and individual differences, evolution of g-protein coupled receptors, mechanisms of learning, Bayesian modeling, development of behavioral testing apparatus

### Applications

PTSD, Depression, Anxiety, Addiction, Pain management

Manuscripts submitted, under review, or in preparation

Daniel, A. M. & Daniel, M. (under review). The Unique-Naming Effect: When Labeling Leads to Love. Preprint available [\[Link\]](#)

Daniel, A. M. & Kennen, J. (under review). Opioid Control of Psychological Pain in Honey Bees.

Daniel, A. M. (in preparation). Failure to demonstrate successive negative contrast in mice.

Daniel, A. M. (in preparation). The Shape of Behavioral Neuroscience: Understanding underlying functions may resolve conflicting evidence.

### Publications

Daniel, A. M. & Treece, K. (2022). Law Enforcement Pathways to Mental Health: Secondary Traumatic Stress, Social Support, and Social Pressure. *Journal of Police and Criminal Psychology*. <https://doi.org/10.1007/s11896-021-09476-5>. [\[Link\]](#)

Daniel, A. M. (2022). Identification of Skill-Appropriate Courses to Improve Retention of At-Risk College Freshmen. *Journal of College Student Retention: Research, Theory & Practice*, 1521025120905542. [\[Link\]](#)

Thompson, J. B., Daniel, A. M., Rushing, B. G., & Papini, M. R. (2021). Recovery profiles from reward downshift are correlated with operant licking maintained by alcohol, but not with genetic variation in the mu opioid receptor. *Physiology & Behavior*, 228, 113192. [\[Link\]](#)

Daniel, A. M., Rushing, B. G., & Tapia Menchaca, K. Y. (2020). Variation of the Human mu-Opioid Receptor (OPRM1) Gene Predicts Vulnerability to Frustration. *Scientific Reports*, 10(1), 1-8. [\[Link\]](#)

Daniel, A. M. (2020). Pattern and Process in Evolution: Unfolding Nature's Origami. *International Journal of Comparative Psychology*, 33. [\[Link\]](#)

Daniel, A. M. (2020). Scaling relative incentive value in honey bees, *Apis mellifera*. *Learning and Motivation*, 69, 101614. [\[Link\]](#)

Caison, B., & Daniel, A. M. (2017). Psychological Pain in the Praying Mantis. *Proceedings of the West Virginia Academy of Science*, 89(1).

Ortega, L. A., Glueck, A.C., Daniel, A. M., Prado-Rivera, M. A., White, M. M., & Papini, M. R. (2014). Memory interfering effects of chlordiazepoxide on consummatory successive negative contrast. *Pharmacology, Biochemistry & Behavior*, 116, 96-106. [\[Link\]](#)

Ortega, L. A., Daniel, A. M., Davis, J. B., Fuchs, P. N., & Papini, M. R. (2011). Peripheral pain enhances the effects of incentive downshifts. *Learning and Motivation*, 42, 203-209. [\[Link\]](#)

Gallistel, C. R., King, A. P., Daniel, A. M., Papachristos, E. B., Balci, F., Kheifets, A., & Su, X. (2010). Screening for Learning and Memory Mutations: A New Approach. *Acta Psychologica Sinica*, 42, 1-21. [\[Link\]](#)

Daniel, A. M., Ortega, L. A., & Papini, M. R. (2009). Role of the opioid system in memory of incentive downshift situations. *Neurobiology of Learning and Memory*, 92, 439-450. [\[Link\]](#)

Norris, J. N., Daniel, A. M., & Papini, M. R. (2008). Spontaneous recovery of consummatory behavior, but not of consummatory successive negative contrast. *Learning and Motivation*, 39, 296-312. [\[Link\]](#)

Wood, M. D., Norris, J. N., Daniel, A. M., & Papini, M. R. (2008). Trial-selective effects of U50,488H, a k-opioid receptor agonist, on consummatory successive negative contrast. *Behavioural Brain Research*, 193, 28-36. [\[Link\]](#)

Daniel, A. M., Wood, M. D., Pellegrini, S. M., Norris, J. N., & Papini, M. R. (2008). Can contextual cues control consummatory successive negative contrast? *Learning and Motivation*, 39, 146-162. [\[Link\]](#)

Daniel, A. M., & Papini, M. R. (2007). *Comparative Psychology*. In W. F. Buskist & S. F. Davis (Eds.), *The Handbook of Psychology in the 21<sup>st</sup> Century*. Thousand Oaks, CA. Sage Publications.

Papini, M. R., Wood, M., Daniel, A. M., & Norris, J. N. (2006). Reward loss as psychological pain. *International Journal of Psychology and Psychological Therapy*, 6, 189-213. [\[Link\]](#)

Wood, M. D., Daniel, A. M., Daniels, E., & Papini, M. R. (2006). Effects of housing on consummatory successive negative contrast in rats: wire-bottom cages versus polycarbonate tubs. *Lab Animal*, 35, 34-38. [\[Link\]](#)

Pellegrini, S., Wood, M., Daniel, A. M., & Papini, M. R. (2005). Opioid receptors modulate recovery from consummatory successive negative contrast. *Behavioral Brain Research*, 164, 239-249. [\[Link\]](#)

Wood, M., Daniel, A. M., & Papini, M. R. (2005). Selective effects of the  $\delta$ -opioid receptor agonist DPDPE on consummatory successive negative contrast. *Behavioral Neuroscience*, 119, 446-454. [\[Link\]](#)

Burns-Cusato, M., Cusato, B. M., & Daniel, A. (2005). A new model for sexual conditioning: the ring dove (*Streptopelia risoria*). *Journal of Comparative Psychology*,

119(1), 111-6. [\[Link\]](#)

## Presentations

Daniel, A. M. (2024, March). The Shape of Behavioral Neuroscience: More than a mean. Presentation at the Southwestern Psychological Association conference, San Antonio, TX.

Guaderrama, C. & Daniel, A. M. (2024, March). Foraging Strategy and Reward Availability in the Honey Bee, *Apis Mellifera*. Poster presented at the Southwestern Psychological Association conference, San Antonio, TX.

Daniel, A. M. (2023, October) The Unique-Naming Effect: When Labeling Leads to Love. Presentation at the Annual ARMADILLO: The Southwest Cognition Conference, San Marcos, Texas.

Guaderrama, C. & Daniel, A. M. (2023, October). Relative Reward Availability and Foraging Preference in Honey Bees, *Apis Mellifera*. Poster Presented at the Annual ARMADILLO: The Southwest Cognition Conference, San Marcos, Texas.

Daniel, A. M. & Daniel, M. (2023, April). Psy vs. Psy: Incorporating web content into traditional and online courses. Presentation at the Southwestern Psychological Association Conference, Frisco, TX.

Abdirahman, A., Ozturgut, M., Sanchez, J., & Daniel, A. M. (2023, May). Successive Negative Contrast in a Superorganism: The Honey Bee Colony. Poster presented at the Southwestern Psychological Association Conference, Frisco, TX.

Daniel, A. M. (2022, September). Same Planet, Different Worlds: Supporting Neurodiverse Adults. Presentation at the 20<sup>th</sup> annual Bexar County Health and Wellness Conference, San Antonio, TX.

Daniel, A. M. & Treece, K. (2021, September) Law Enforcement Pathways to Mental Health: Secondary Traumatic Stress, Social Support, and Social Pressure. Presentation at the Society for Police and Criminal Psychology Conference, Arlington, TX.

Daniel, A. M. (2021, April) Promoting Resilience in High-Risk College Freshmen Through Early Success. Presentation at the Southwestern Psychological Association Conference, San Antonio, TX.

Daniel, A. M., Rushing, B. G., & Tapia Menchaca, K. Y. (2020, September). The effect of the A118G human mu-opioid receptor mutation on pain and frustration. Presentation at the Annual ARMADILLO: The Southwest Cognition Conference

Daniel, A. M. (2020, September). Sting Operation: What bees and other invertebrates tell us about comparative psychology. Invited talk, Texas Christian University, Fort Worth, TX.

Daniel, A. M., Rushing, B.G., & Tapia, K. (2019, October). Does the Mu-Opioid Receptor Polymorphism A118G Predict Sensitivity to Reward Downshifts? Poster presented at the Society for Neuroscience meeting, Chicago, IL.

Daniel, A. M. (2019, October). Emotion-like Learning in Honey Bees. Presentation at the Annual ARMADILLO: The Southwest Cognition Conference, San Antonio, TX.

Daniel, A. M. (2018, August). Scaling Relative Incentive Value in Honey Bees. Presentation at the 2018 Annual American Psychological Association Convention, San Francisco, CA.

Daniel, A. M. (2018, March). Psychological Pain in the Praying Mantis. Presentation at the Southwestern Psychological Association, Houston, TX.

Daniel, A. M. (2018, March). Sign-tracking and Goal-tracking in Reward Downshifts: Measurement Matters. Presentation at the Southern Society for Philosophy and Psychology, San Antonio, TX.

Caison, B. and Daniel, A. M. (2017, April). Psychological Pain in the Praying Mantis. Presentation at the Annual Meeting of the West Virginia Academy of Science. Elkins, WV.

Daniel, A. M., Urbanic, J. J., Fuller, A. L., & Taylor, A. P. (2014, August). Got No Backbone: The search for invertebrate anxiety. Presentation at the 2014 Annual American Psychological Association Convention, Washington, DC.

Brooker, S. A. & Daniel, A. M. (2014, April). Isopod Learning: You're going to need a smaller maze. Presentation at the 89th annual meeting of the West Virginia Academy of Science, Shepherdstown, WV.

Fuller, A. L. & Daniel, A. M. (2014, April). Isopods and Invertebrate Anxiety. Poster presented at the 89th annual meeting of the West Virginia Academy of Science, Shepherdstown, WV.

Urbanic, J. J. & Daniel, A. M. (2014, April). To Bee or Not to Bee? That is the Depression. Presentation at the 89th annual meeting of the West Virginia Academy of Science, Shepherdstown, WV.

Urbanic, J. & Daniel, A. M. (2014, January). How to Tell if Your Honeybee is Depressed. Poster presented at the Undergraduate Research Day at the Capitol, Charleston, WV.

Urbanic, J. & Daniel, A. M. (2013, October). Isopentyl Acetate Modulates Psychological Pain in Honeybees via an Opioid Mechanism. Presentation at the 66<sup>th</sup> Chi Beta Phi

National Conference, Glenville, WV.

Daniel, A. M., Urbanic, J., & Jacobs, M. (2013, August). Reward Specificity During Reward Downshifts: Sign- Versus Goal-Tracking in Honey Bees. Presentation at the 2013 Annual Conference of the American Psychological Association, Honolulu, HI.

Urbanic, J., Jacobs, M., & Daniel, A. M. (2013, April). An Inexpensive, Automated Apparatus for Measuring Consummatory Behavior in Restrained Honey Bees. Presentation at the 88<sup>th</sup> Annual Meeting of the West Virginia Academy of Science, Davis, WV.

Daniel, A. M. (2012, April). A Comparative Approach to Models of Depression. Presentation at the 87<sup>th</sup> Annual Meeting of the West Virginia Academy of Science, Institute, WV.

Ortega, L. A., Glueck, A., Daniel, A. M., Prado, M. A., & Papini, M. R. (2011, August). Reinterpreting the Role of Chlordiazepoxide in Reward Downshift: Emotion, Memory, or Both? Presentation at the 119<sup>th</sup> Annual American Psychological Association convention, Washington, DC.

Daniel, A. M. (2009, December). Role of Opioids in Incentive Loss. Invited presentation, Baylor University, Waco, TX.

Gallistel, C. R., King, A. P., Daniel, A. M., Papachristos, E. B., & Balci, F. (2008, August). Fully automated 24/7 behavioral screening for mutations in targeted cognitive mechanisms in the mouse. Presentation at Measuring Behavior 2008: 6th international conference on methods and techniques in behavioral research, Maastricht, The Netherlands.

Norris, J. N., Wood, M. D., Daniel, A.M., & Papini, M. R. (2007, November). Bidirectional effects of U50,488H, a k-opioid receptor agonist, on consummatory successive negative contrast. Poster presented at the 37<sup>th</sup> Annual Society For Neuroscience meeting, San Diego, CA.

Daniel, A. M., Ortega, L., & Papini, M. R. (2007, November). Opioid modulation of the aversive memory of incentive downshift. Poster presented at the 37<sup>th</sup> Annual Society For Neuroscience meeting, San Diego, CA.

Lopez Seal, F., Mustaca A. E., Daniel, A. M., Wood, M., Norris, J. N., Papini, M. R. and Pellegrini, S. (2007, November). Control contextual del contraste negativo sucesivo consumatorio en ratas. VI Jornadas Científicas, Instituto de Investigaciones Médicas Lanari, Argentina.

Daniel, A. M., & Papini, M. R. (2007, April). Within-trial oscillations in consummatory behavior during incentive shifts. Paper presented at the 53<sup>rd</sup> annual meeting of the Southwestern Psychological Association, Fort Worth, TX.

Daniel, A. M., Ortega, L. A., & Papini, M. R. (2007, April). Posttrial administration of naloxone enhances consummatory suppression after incentive downshifts. Paper presented at the 53<sup>rd</sup> annual meeting of the Southwestern Psychological Association, Fort Worth, TX.

Papini, M. R., Daniel, A. M., Wood, M. D., Pellegrini, S., & Norris, J. N. (2007, March). Contextual Control of Consummatory Successive Negative Contrast. Paper presented at the 78<sup>th</sup> annual meeting of the Eastern Psychological Association, Philadelphia, PA.

Daniel, A. M., & Papini, M. R. (2006, April). Within-trial oscillations in sipper contact: A measure of approach-avoidance conflict in consummatory successive negative contrast? Paper presented at the 52<sup>nd</sup> annual meeting of the Southwestern Psychological Association, Austin, TX.

Daniel, A. M., Wood, M. D., Pellegrini, S. M., Norris, J. N., & Papini, M. R. (2005, November). Contextual control of consummatory successive negative contrast. Poster presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, ON.

Pellegrini, S., Wood, M., Daniel, A. M., & Papini, M. R. (2005, November). Opioid receptors and individual differences in consummatory successive negative contrast. Paper presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, ON.

Wood, M., Daniel, A. M., & Papini, M. R. (2004, November). Role of the opioid system in consummatory successive negative contrast. Paper presented at the 45<sup>th</sup> Annual Meeting of the Psychonomic Society, Minneapolis, MN.

#### A&M-SA Courses Taught

- Biopsychology (Graduate)
- Statistics (Graduate)
- Comparative Psychology
- Directed Research in Psychology
- Human Sexuality
- Introduction to the Psychology Major (traditional and web-based)
- Learning and Memory (traditional and web-based)
- Motivation and Emotion (traditional and web-based)
- Neuroscience
- Physiological Psychology (traditional and web-based)
- Psi Fi: Psychology through Science Fiction
- Research Methods and Statistics II (traditional and web-based)
- Drugs, Addiction, and Behavior

#### GSC Courses Taught

- Comparative Psychology
- Emotion Seminar

- Evolutionary Psychology
- General Psychology (traditional and web-based)
- Human Sexuality (traditional and web-based)
- Learning and Memory (traditional and web-based)
- Lifespan Development (traditional and web-based)
- Motivation and Emotion (traditional and web-based)
- Perception and Cognition
- Physiological Psychology (traditional and web-based)
- Psychology through Science Fiction
- History of psychology
- Psychology Research Methods and Statistics
- Senior Seminar
- Social Psychology
- Directed research in Psychology

#### Grants and Awards

- January 2021 \$10,000  
PI, A&M-SA College of Arts and Sciences Scholarly/Creative Grant  
Successive negative contrast in mice.
- February 2019 \$423,597  
Co-Investigator (Ross PI), National Institutes of Health - P51 Supplement  
Enhancement of the SNPRC marmoset program to expand studies of ambulation  
and sensory systems to further the development of the marmoset as a model of  
early Alzheimer's disease.
- June 2019 \$3,161  
Collaborator (Papini PI), TCU RCAF Award, Resilience-vulnerability to frustration  
and variation in mu-opioid receptor gene.
- September 2018 \$410,903  
Consultant (Ross PI), National Institutes of Health - P51 Supplement  
Enhancement of the SNPRC marmoset program to expand studies of age-related  
cognitive decline and develop the marmoset as a model of early Alzheimer's  
disease.
- May 2018 \$4,900  
PI, A&M-SA Research Council Grant. Development of a High Throughput Assay for  
Drug Discovery.
- May 2018 \$3000  
PI, A&M-SA College of Arts and Sciences Summer Fellowship. Opioids and  
Psychological Pain in Bees and Humans.



- January 2018 \$6000  
Collaborator (Weatherford PI), A&M-SA Presidential Seed Fund. The Eyes Have It: Using eye-tracking software to measure attention, learning, and memory across different scientific disciplines.
- January 2018 \$15,000  
Collaborator (Rushing PI), A&M-SA Presidential Seed Fund. Fostering Interdisciplinary Research Experiences for Undergraduate Potential.

#### Previous awards

- NASA West Virginia Space Grant Consortium Student Research Grant (2016)
- NASA West Virginia Space Grant Consortium Student Research Grant (2014)
- NASA West Virginia Space Grant Consortium Student Research Grant (2013)
- NASA West Virginia Space Grant Consortium Grant (2012)
- Glenville State College Faculty Development Award (2011)
- First Place, Southwestern Comparative Psychological Association Research Competition (2006, 2007)
- TCU Graduate Student Senate Travel Award (Spring 2005)

#### Grants and Awards Not Yet Funded

- Co-PI, Scholars in Computing and Cyber Security (S-CCS). Submitted to National Science Foundation. \$649,960.
- Co-PI, MRI: Acquisition of a confocal laser scanning microscope for cross-disciplinary multi-user research. Submitted to National Science Foundation. \$420,000.

#### A&M-SA Institutional Service

##### University and College

- Chair, University Curriculum Committee, 2019-2020
- Faculty Senate, 2019-2020
- Director of Research Compliance Search Committee, 2020
- Applied Behavioral Analysis Advisory Board, 2020-present
- President's Commission on Equity, 2023-2024
- College of Arts and Sciences Reorganization Committee, Fall 2022-2023
- College of Arts and Sciences Strategic Planning Task Force, Fall 2022
- University Core Curriculum Committee, Fall 2021-Present
- Faculty Advisor: Animal Hearts, Fall 2022-2024

##### Department and Program

- Program Coordinator, January 2023-present
- Chair, Program Assessment Committee, 2019-2024

- Program Curriculum and Scheduling committee, 2019-present
- Program quartermaster, 2017-present
- Prospective Faculty Tenure Review Committee, Fall 2022
- Tenure-track Assistant Professor of Psychology Search Committee, 2019-2020
- Curriculum author, Master of Science in Psychology Proposal, 2018-2019
- Co-advisor, Psychology Club, 2018-2019
- Speaker, Psychology Speaker Series, 2018
- Chair, Lecturer in Psychology Search Committee 2017

#### Professional Service

- Editorial Board, Frontiers in Behavioral Neuroscience (2023-present)
- Executive committee, Society for Comparative Psychology and Behavioral Neuroscience (2012-2021)
- Newsletter Editor, APA Division 6 (2012-2021)
- Webmaster, APA Division 6 (2012-2014)
- Treasurer, International Society for Comparative Psychology (2012-2016)
- Editorial Assistant, International Journal of Comparative Psychology 2004-2006
- Reviewer, Learning and Motivation
- Reviewer, Pharmacology and Behavior
- Reviewer, Psychoneuroendocrinology
- Reviewer, Motivation and Emotion