

# ANDREW CAWLEY-BENNETT

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## EDUCATION

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| <b>PhD</b> | Emory University, Psychology<br>Neuroscience and Animal Behavior<br>Dissertation: “The Role of Memory Retrieval in Retrieval Practice”<br>Advisor: Joseph Manns | 2023 |
| <b>MA</b>  | Emory University, Psychology<br>Neuroscience and Animal Behavior<br>Thesis: “Semantic Schema Knowledge-Based Integration”<br>Advisor: Joseph Manns              | 2020 |
| <b>BS</b>  | University of California San Diego, Cognitive Science<br>Specialization in Neuroscience<br>Graduated Magna Cum Laude  | 2015 |

## RESEARCH EXPERIENCE

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**Emory University**, Atlanta 2018 – 2023  
*Graduate Studies*  
Advisor: Dr. Joseph Manns

- Developed & managed over 14 behavioral & 1 neuroimaging experiments focusing on enhancing learning & memory. Carried out multiple pilot experiments as well.
- Developed strong understanding of the scientific method and statistical analyses.
- Collected, analyzed, & organized data.
- Gained vast coding experience with Matlab & Python including various statistical techniques, e.g., machine learning toolboxes.
- Applied good laboratory practices (GLP) & developed standard operating procedures (SOP).
- Developed automated process functions to evaluate individual data (behavioral & neuroimaging data) using Matlab.
- Mentored undergraduate students in research training.
- Developed effective communication skills between participants, research assistants, & laboratory team members
- Submitted written grants & developed IRB applications.
- Writing experience for peer-reviewed research journals & presented posters at scientific conferences.
- Presented annual findings to a broad audience.

**Emory University, Atlanta**  
**Graduate Studies**

2018 – 2019

Supervisor: Drs. Cory Inman and Jon Willie

- Assisted in memory experiments on human patients undergoing intracranial electrophysiology (iEEG) monitoring prior to surgery to eliminate chronic epilepsy.
- Collected electrophysiological data.
- Developed great rapport with clinical patients.
- Experience working knowledge with medical devices.

**Veterans Affairs Hospital/University California San Diego, San Diego**      2015 - 2018  
**Psychology Technician**

Supervisor: Dr. Christine Smith

- Conducted psychometric cognitive testing with clinical patients & cognitively healthy participants.
- Assisted with neuroimaging to examine memory impairments in older aging population to better predict the development of Alzheimer's disease.
- Developed standard operating procedures & good laboratory practices for participant recruitment, administration of cognitive tests, data organization, & statistical analyses.
- Developed experimental stimuli.
- Collected behavioral, neuroimaging, & biological data.
- Gained effective coding experience with Matlab.
- Developed effective communication skills with participants, laboratory team members, & research assistants.
- Developed & submitted IRB applications.
- Published in peer-reviewed research journals & presented posters at scientific conferences.

**University California San Diego, San Diego**  
**Research Assistant**

2015 - 2016

Supervisor: Drs. Larry Squire and Christine Smith

- Assisted in a memory lab with eye tracking & neuroimaging data.
- Developed & designed novel statistical techniques to quantify changes in viewing patterns using Matlab.
- Organized data from clinical patients.

**University California San Diego, San Diego**  
**Research Assistant**

2016 - 2016

Supervisor: Dr. Robert Clark

- Assisted in a memory research with rats.
- Assisted in rat histology including tissue slicing & cell staining.
- Analyzed data.

**University California San Diego, San Diego**  
**Research Assistant**

2014 - 2015

Supervisor: Drs. Luke Miller and Ayse Saygin

- Developed & collected behavioral data with the focus on sensory and motor tactile recalibration.
- Developed great rapport with participants & effective communication strategies.
- Assisted in data collection & statistical analysis using Matlab.
- Collaborated in a publication for peer-reviewed research journal.

## NON-ACADEMIC WORK EXPERIENCE

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**Sound Image**, Escondido

2004 – 2018

***Audio Technician and Engineer***

Supervisor: Rick Stanley

- Engineered live sound events, e.g., concerts, philanthropic events, marathons.
- Traveled for months at a time with popular mainstream musicians.
- Developed excellent knowledge in areas of risk management & safety protocols.
- Independently learned to use multiple digital software programs & platforms.
- Acquired quick, efficient, & creative problem-solving skills.
- Communicated cross functionally with other audio engineers & live event vendors, e.g., lighting, video.
- Experience collaborating within teams.
- Appointed as project manager for multiple events.
- Mentored novice technicians.

## SKILLSETS

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**Soft Skills:** Strong Understanding of Scientific Method, Excellent Communication Skills, Experimental Study Design, Data Collection, Statistical Analyses, Experience with Coding & Automated Process Development, Excellent computer skills, Project Management, Writing Protocols & Standard Operating Procedures, Time Management Skills, Meets Multiple Deadlines, Excellent People & Patient Skills, Organizational Skills, Attention to Detail & Organization, Excellent at Putting Plans into Action, Trouble Shooting/Problem Solving Analytical Thinking Skills, Team Player, Independent Learning Skills, Experience with Good Laboratory Practices, Mentoring Experience, Publications in Peer-Reviewed Journals, Grant Writing

**Programming:** Matlab, Python, R, Unix,

**Applications:** PsychoPy, Eprime, Qualtrics, SPSS, SPM, SnPM, CoSMoMVPA Toolbox, RSA Toolbox, The Decoding Toolbox, ROC Toolbox, Docker, Microsoft Office, Google Docs & Sheets, Google Drive, NumPy, Pandas, Seaborn, Matplotlib

**Methodologies:** Human Electrophysiology in Clinical Patients, Neuroimaging, Human Behavior, Eye-tracking, Rat Histology

## CERTIFICATIONS

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### **Associate Data Scientist in Python**

DataCamp, Aug 2024

### **Supervised Machine Learning: Regression and Classification**

DeepLearning.AI, Stanford University  
Coursera Course Certificates, Dec 2023

## HONORS AND AWARDS

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### **Laney Graduate School Professional Development Support Funds** 2021

Emory University Doctoral School funds to support professional development and career planning (\$2,500)

## SUBMITTED GRANTS

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### **Facility for Education and Research in Neuroscience (FERN) Grant** 2022

Emory University FERN educational grant provides financial support towards a magnetic resonance imaging (MRI) study (\$1,200)

### **National Science Foundation Graduate Research Fellowship (Not funded)** 2020

## IN PRESS AND PUBLISHED MANUSCRIPTS

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I. Asp, **Cawley-Bennett, A.T.J.**, Frascino, J.C., Golshan, S., Bondi, M.W., & Smith, C.N. (2024). News Event Memory in Amnesic and Non-Amnesic MCI, Heritable Risk for Dementia, and Subjective Memory Complaints. *Neuropsychologia*, 199.

**Cawley-Bennett, A.T.J.**, Frascino, J.C., Asp, I., Golshan, S., Bondi, M.W., Smith, C.N. (2022). The Retrograde Memory for News Events Test (RM-NET) and the relationship between news event memory and performance on standard neuropsychological tests of cognition. *Learning & Memory*, 29(10), 367-378.

Miller, L. E., **Cawley-Bennett, A.**, Longo, M. R., & Saygin, A. P. (2017). The recalibration of tactile perception during tool use is body-part specific. *Experimental Brain Research*, 235(10), 2917-2926. Doi:10.1007/s00221-017-5028-y

## MANUSCRIPTS IN REVISION OR PREPARATION

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### *Submitted*

**Cawley-Bennett, A.T.J.**, Bunn, J.I., Manns, J.R. (2024). Separable Cued Recall Retrieval Practice Effects for Cue Words and Target Words. *Memory & Cognition*.

### *Writing Phase*

**Cawley-Bennett, A.T.J.,** Manns, J.R. (in prep). An fMRI Examination of the Role of Retrieval to Memory from Retrieval Practice.

## CONFERENCE PRESENTATIONS

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### *Poster Presentations*

**Cawley-Bennett A.,** Minondo D., Rivera S., Manns J.R. (2022). *Mechanisms of retrieval practice* (abstract). Society for Neuroscience Abstracts (160.10), San Diego.

Asp, I. E., **Cawley-Bennett, A. T. J.,** Frascino, J. C., Golshan, S., Bondi, M. W., Smith, C. N. (2022). *Novel news event test is sensitive to mild cognitive impairment and heritable risk for dementia but it is not sensitive to genetic risk factors specific to Alzheimer's dementia* (abstract). Society for Neuroscience Abstracts (160.12), San Diego.

**Cawley-Bennett A.,** Minondo D., Manns J.R. (2021). *Retrieval practice in a recognition memory word pair paradigm* (abstract). Society for Neuroscience Abstracts (815.06).

Guzman, B., Asp, I., **Cawley-Bennett, A.,** Frascino, J., Golshan, S., Bondi, M., Smith, C.N. (2021). *Exploring aspects of news event memory in individuals with normal cognition or mild cognitive impairment using the retrograde memory news events test (RM-NET)*. Lewis Judd Junior Faculty Psychiatry Research Symposium, University of California San Diego (virtual).

Asp, I. E., **Cawley-Bennett, A. T. J.,** Frascino, J. C., Golshan, S., Bondi, M. W., Smith, C. N. (2020). *The relationship between news event memory and performance on traditional neuropsychological tests*. Lewis Judd Junior Faculty Psychiatry Research Symposium, University of California San Diego (virtual).

Asp, I. E., **Cawley-Bennett, A. T. J.,** Frascino, J. C., Golshan, S., Bondi, M. W., Smith, C. N. (2020). *The relationship between news event memory and performance on traditional neuropsychological tests*. Cognitive Neuroscience Society Annual Meeting (virtual).

Asp, I. E., **Cawley-Bennett, A. T. J.,** Frascino, J. C., Golshan, S., Bondi, M. W., Smith, C. N. (2019). *Recognition memory for news events in amnesic mild cognitive impairment*. UCSD Shiley-Marcos Alzheimer's Disease Research Center Data Blitz. Poster.

**Cawley-Bennett A.,** Asp I.E., Golshan S., Smith C.N. (2018). *Factors, other than amnesia, that predict performance on tests of news event memory* (abstract). Society for Neuroscience Abstracts (693.04), San Diego.

**Cawley-Bennett A.,** Asp I.E., Golshan S., Smith C.N. (2018). *Factors that predict performance on tests of news event memory* (abstract). Lewis Judd Junior Faculty Psychiatry Research Symposium, University of California San Diego.

## TEACHING EXPERIENCE

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**Instructor***At Emory University*

Research Methods, Psychology

2020, Spring

**Guest Lecturer***At Emory University*

Memory Improvement, Behavioral Neuroscience

2021, Fall

Multiple Memory Systems, Introduction to Psychology

2019, Fall

The Thinking Machine: Neurons, Introduction to Psychology

2019, Fall

Multiple Memory Systems, Introduction to Psychology

2019, Spring

**Other***At Emory University*

Teaching Assistant: Human Learning and Memory with Dr. Stephan Hamann 2022, Fall

Teaching Assistant: Behavioral Neuroscience with Dr. Joseph Manns 2021, Fall

Teaching Assistant: Intro to Psychology with Dr. Aubrey Kelly 2020, Fall

Teaching Assistant: Animal Behavior with Dr. Donna Maney 2020, Fall

Teaching Assistant: Intro to Psychology with Dr. Andrew Kazama 2019, Fall

**MENTORSHIP**

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***Undergraduate Students, Supervised***

2022 – 2023 Bennett Levine

2021 – 2023 Solana Rivera

2020 – 2022 Daniela Minondo

2019 - 2020 Dante Lawson

**PROFESSIONAL AFFILIATIONS**

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**San Diego Neurology Society (San Diego Neurosciences Society)** 2017 - 2018**Graduate Students in Psychology and Neuroscience (GSPN)** 2018 - 2022**Society for Neuroscience (SFN)** 2018 - 2023**REFERENCES**

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**Dr. Joseph Manns**, Associate Professor

Psychology

Emory University, Atlanta GA

Phone:

Email: [jmanns@emory.edu](mailto:jmanns@emory.edu)**Dr. Christine Smith**, Assistant Adjunct Professor

Psychiatry

UCSD, VA San Diego CA

Phone: (858) 552-8585 x7128

Email: [cnsmith@ucsd.edu](mailto:cnsmith@ucsd.edu)

**Dr. Cory Inman**, Assistant Professor  
Cognition & Neural Science  
University of Utah, Salt Lake City UT  
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