

## Alexander Claxton

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Department of Psychology Colorado State University  
1876 Campus Delivery, Fort Collins, CO 80523-1876

### Education

- May 2017 (anticipated)** Colorado State University, Fort Collins, CO  
Major: Cognitive Psychology  
Degree: Ph.D.
- May 2015** Colorado State University, Fort Collins, CO  
Major: Cognitive Psychology  
Degree: M.S.
- May 2010** Hamline University, Saint Paul, MN  
Major: Psychology  
Degree: B.A., *cum laude*  
Honors Thesis: Gist or Activation-Monitoring

### Publications

- Cleary, A.M. & **Claxton, A.B.** (under review). Déjà vu: An Illusion of Prediction. *Psychological Science*.
- Cleary, A.M. & **Claxton, A.B.** (2015). The Tip-of-the-Tongue Heuristic: How Tip-of-the-Tongue States Confer Perceptibility on Inaccessible Words. *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- Regier, P.S, **Claxton, A.B.**, Zlebnik, N.E., Carroll, M.E. (2014). Cocaine-, caffeine-, and stress-evoked cocaine reinstatement in high vs. low impulsive rats: Treatment with allopregnanolone. *Drug and Alcohol Dependence*.
- Holtz, N. A., Anker, J. J., Regier, P. S., **Claxton, A.**, & Carroll, M. E. (2013). Cocaine self-administration punished by iv histamine in rat models of high and low drug abuse vulnerability: effects of saccharin preference, impulsivity, and sex. *Physiology & behavior*, 122, 32-38.

### General Research Interests

Applied cognition within education  
Neural correlates of learning  
Metacognition

### Current Projects

**Claxton, A.B.**, & Cleary A.M. Tip-of-the-Tongue Heuristic Without a Study list

Cleary A.M., **Claxton, A.B.** Analyzing Scalar Tip-of-the-Tongue Ratings

**Claxton, A.B.**, & Cleary A.M. Predicting Recall Through Cognitive States

**Claxton, A.B.**, Cleary A.M., & Seger, C.A. Accumulation and Familiarity in Configurally Similar Scenes

### **Invited Talks**

The Tip-of-the-Tongue Heuristic. (12/1/16) Cognitive Research Update for the Healy Jones Laboratory, CU Boulder

Déjà vu and Jamais vu. (28/2/17) Memory and Consciousness: Metacognition, Florida International University

### **Conference Presentations**

Freud, P., Beirise, K. Michael, K., **Claxton, A.B.**, Cleary, A.M. (2016) *A Comparison of Selection Methods for Restudying Information: EEG Versus Participant Selection.* Poster session at FRNG (Fort Collins, CO)

**Claxton, A.B.** & Cleary, A.M. (2016) *The Tip-of-the-Tongue Heuristic: Inferring Partial Word Attributes from the Mere Presence of a Tip-of-the-Tongue State.* Poster session at APA (Denver, CO)

Freud, P., Beirise, K. Michael, K., **Claxton, A.B.**, Cleary, A.M. (2016) *A Comparison of Selection Methods for Restudying Information: EEG Versus Participant Selection.* Poster session at APA (Denver, CO)

Freud, P., Beirise, K. Michael, K., **Claxton, A.B.**, Cleary, A.M. (2016) *A Comparison of Selection Methods for Restudying Information: EEG Versus Participant Selection.* Poster session at RMPA (Denver, CO)

Elatova, A., Freud, P., Visani, G., Miller, J., Michael, K., Staley, S., **Claxton, A.B.**, Cleary, A.M. (2016) *How Tip-of-the-Tongue States Bias Decisions about Faces of People whose Names cannot be Retrieved.* Poster session at RMPA (Denver, CO)

**Claxton, A.B.** & Cleary, A.M. (2015) *The Tip-of-the-Tongue Heuristic: Inferring Partial Word Attributes from the Mere Presence of a Tip-of-the-Tongue State.* Poster session at Psychonomic Society (Chicago, IL)

**Claxton, A. B.**, Vieane, A. Z., & Cleary, A. M. (2015) Is Survival Processing a “Deeper” Level of Processing? Poster session at the inaugural International Convention of Psychological Science (Amsterdam, The Netherlands)

**Claxton, A.B.** & Cleary, A.M. (2014) *The Tip-of-the-Tongue Heuristic: Inferring Characteristics of Unretrieved Words From the Presence of a Tip-of-the-Tongue State*. Poster session at Psychonomic Society (Long Beach, CA)

**Claxton, A.B.** & Cleary, A.M. (2014) *Desirable Difficulties: Shades of Gray*. Poster session at Rocky Mountain Psychological Association (Salt Lake City, UT)

**Claxton, A.B.**, Cleary, A.M., Seger, C.A., Thaut, M.H. (2014) *The Neural Response to Isolated Tonal and Rhythmic Features from Familiar Songs When Retrieval Fails*. Poster session at Cognitive Neuroscience Society (Boston, MA)

**Claxton, A.B.** & Olson, M.H. (2010) *Is Gist or Activation-Monitoring Responsible for False Memory in the DRM Paradigm?* Poster session at the National Conference on Undergraduate Research (Missoula, MT) and Midwest Psychological Association (Chicago, IL) conference.

**Claxton, A.B.** & Olson, M.H. (2009) *Gist or Spreading Activation: The Cause of False Recall*. Poster session at the National Conference on Undergraduate Research (LaCrosse, WI) and Midwest Psychological Association (Chicago, IL) conference.

### **Committee Membership**

Techfee Committee (2015 – present)

Seminar Committee (2016 – present)

### **Professional Affiliations**

American Psychological Association

Association for Psychological Science

Society for Applied Research in Memory and Cognition (SARMAC)

Cognitive Neuroscience Society (CNS)

Rocky Mountain Psychological Association (RMPA)

Front Range Neuroscience Group (FRNG)

Psi Chi

### **Teaching Experience**

#### **Colorado State University**

##### **Spring 2017**

##### **Instructor**

Psy 450 - Applied Research Methods in Psychology II – Honors  
Laboratory

Psy 453 - Cognitive Psychology Laboratory

##### **Fall 2016**

##### **Instructor**

Psy 453 - Cognitive Psychology Laboratory Online

Psy 453 - Cognitive Psychology Laboratory

##### **Summer 2016**

##### **Co-Instructor**

	Psy 100 – General Psychology
	Psy 250 – Research Methods in Psychology
	<b>Graduate Teaching Assistant</b>
	Psy 457L – Sensation and Perception Laboratory Online
<b>Spring 2016</b>	<b>Instructor</b>
	Psy 653L – Methods of Research in Psychology II - Lab
<b>Fall 2015</b>	<b>Instructor</b>
	Psy 652L – Methods of Research in Psychology I - Lab
<b>Summer 2015</b>	<b>Instructor</b>
	Psy 453 - Cognitive Psychology Laboratory
<b>Spring 2015</b>	<b>Instructor</b>
	Psy 450 – Applied Research Methods in Psychology II – Honors Laboratory
<b>Fall 2014</b>	<b>Instructor</b>
	Psy 459 – Cognitive Neuroscience Psychology Laboratory
<b>Spring 2014</b>	<b>Instructor</b>
	Psy 453 – Applied Cognitive Psychology Laboratory
	<b>Graduate Teaching Assistant</b>
	Psy 252 – Mind, Brain, & Behavior
<b>Fall 2013</b>	<b>Instructor</b>
	Psy 453 - Cognitive Psychology Laboratory
	<b>Graduate Teaching Assistant</b>
	Psy 458 – Cognitive Neuroscience
<b>Summer 2013</b>	<b>Instructor</b>
	Psy 453 - Cognitive Psychology Laboratory
<b>Spring 2013</b>	<b>Graduate Teaching Assistant</b>
	Psy 252 – Mind, Brain, & Behavior
	Psy 452 – Cognitive Psych
<b>Fall 2012</b>	<b>Graduate Teaching Assistant</b>
	Psy 458 – Cognitive Neuroscience
	Psy 250 – Research Methods

### **Material Covered**

Experimental methodology	Statistical analysis (R, R studio)
Statistical analysis (SPSS)	Statistical analysis (Excel)
<i>t</i> -testing	AN(C)OVA/MAN(C)OVA
Multiple linear regression	Non-linear regression
Logistic regression	Moderation/mediation
Correlational research design	Research ethics
Cognitive psychology	Psychology (general)
APA writing style	Data visualization/presentation

### **Research Experience**

**2012-2017**      Graduate Research Assistant

Cleary Lab  
 Department of Psychology  
 Colorado State University  
 PI: Anne Cleary, Ph.D.  
 Topic Investigated:  
 Prediction of learning through pseudo-real time EEG classification  
 The effect of Déjà vu states on feelings of premonition  
 Attributions of Tip-of-the-Tongue state to other judgements about the unrecalled  
 item and unrelated judgements  
 Ratings of familiarity for isolated tonal and rhythm features in music

**2012-2017** Graduate Research Assistant  
 Seger Lab  
 Department of Psychology  
 Colorado State University  
 PI: Carol Seger, Ph.D.  
 Topic Investigated:  
 Accumulation of familiarity in configurally similar and dissimilar scenes  
 Neural correlates of isolated tonal and rhythm features in music  
 Ratings of familiarity for isolated tonal and rhythm features in music

**2010-2012** Research Assistant/Junior Lab Tech  
 Carroll Lab  
 Department of Psychiatry  
 University of Minnesota  
 PI: Marilyn Carroll  
 Topics Investigated:  
 The effects of chronic exercise on the incubation of cocaine seeking in rats  
 The role of orexin receptor antagonism in the reinstatement of methamphetamine  
 seeking in adolescent and adult rats  
 Adenoviral vector delivery of a cocaine hydrolase to decrease cocaine-induced  
 locomotor activity, escalation of cocaine intake, and reinstatement of  
 cocaine seeking in rats (in collaboration with Stephen Brimijoin, Ph.D.,  
 Mayo Clinic)  
 Measuring neuronal activation by c-Fos immunoreactivity in rat brain reward  
 areas following exercise (wheel running) and administration of cocaine (in  
 collaboration with Robert L. Meisel, Ph.D., Dept. of Neuroscience, U of  
 M)  
 The role of the GRIK3 receptor in cocaine-induced locomotor activity and  
 reinstatement of cocaine seeking in male and females rats (in collaboration  
 with Kent Hamra, Ph.D., UT Southwestern Medical Center)  
 Examining the effects of allopregnanolone on the escalation of cocaine seeking  
 and sucrose seeking in female rats  
 Investigating the effects of concurrent exercise (wheel running) on acquisition,  
 escalation, and reinstatement of cocaine-seeking behavior in rats

Investigating the interaction between sex, saccharin preference, and impulsivity  
on cocaine self-administration

Examining the effects of histamine on the-self administration of cocaine in  
adolescent and adult rats

**2009-2010** Undergraduate Researcher  
Department of Psychology  
Hamline University  
Adviser: Matt Olson  
Topics Investigated:  
The effects of presentation rate, thematic instructions, and interspersed Stroop  
task on the Deese-Roediger-McDermott paradigm

### **Honors and Awards**

**2014** MCIN Travel grant  
**2010** Departmental Honors, Hamline University, Saint Paul, MN

### **References**

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