

DEBORAH A. CRONIN, PhD

Curriculum Vitae

Center for Mind and Brain
University of California, Davis
267 Cousteau Pl
Davis, CA 95616

Phone: (630) 639-8988
E-mail: debcronin3@gmail.com
Website: www.dacronin.com

Education

University of Illinois at Urbana-Champaign, Urbana, IL:

M.A., Psychology (2015)

Ph.D., Psychology (2018). *Dissertation Title:* Visual working memory supports perceptual stability across saccadic eye movements.

University of Notre Dame; Notre Dame, IN, USA

B.S., Biological Sciences and Psychology (2012)

Research Interests

Visual Cognition | Visual Attention | Eye Movements | Perceptual Stability | Scene Perception | Visual Search | Perceptual Stability | Transsaccadic Integration | Visual Working Memory | Perception and Action | Attention Control

Research Experience and Internships

- Jun 2018 – Present Visual Cognition Lab (*Postdoctoral Scholar*)
Center for Mind and Brain
University of California, Davis
PI: John Henderson
- Apr 2016 – May 2018 Irwin Lab (*Doctoral Research*)
University of Illinois at Urbana-Champaign, Urbana, IL
Doctoral Research Supervisor – David E. Irwin
- Aug 2012 – May 2018 Human Attention Lab (formerly, Vision Lab; *Graduate Assistant*)
University of Illinois at Urbana-Champaign, Urbana, IL
Graduate Advisors: Alejandro Lleras & Simona Buetti
- Mar 2016 – Aug 2017 Sandia National Labs-UIUC Academic Alliance (*Research Assistant*)
University of Illinois at Urbana-Champaign, Urbana, IL
- Jun – Aug 2014 Intern at McDonald's Corporation: Sensory Sciences Division
Oak Brook, IL
- Dec 2009 – May 2012 Visual Cognition Lab (*Research Assistant, Senior Honors Student*)
Department of Psychology, University of Notre Dame, Notre Dame, IN
Advisor: James R. Brockmole

Publications

Divis, K.M., Matzen, L.E., **Cronin, D.A.**, Haass, M.J. (in preparation). Control of eye movements in data visualizations.

Cronin, D.A., Buetti, S., & Lleras, A. (in preparation). The information theory of vision: Evidence from eye-movements.

Cronin, D.A., Lleras, A., & Buetti, S. (in preparation). Target-similarity of distractors in a heterogeneous search array is predictive of reaction time.

Madison, A., & **Cronin, D.A.** (in preparation). Visual working memory capacity and search performance.

Cronin, D.A., & Irwin, D.E. (2018). Visual working memory supports perceptual stability across saccadic eye movements. *Journal of Experimental Psychology, Human Perception and Performance*.

Lleras, A., **Cronin, D.A.**, Madison, A.M., Wang, Z., Buetti, S. (2017). Oh the number of things you will process (in parallel)! Commentary on Hulleman & Olivers (2017). *Behavioral and Brain Sciences*, 40.

Cronin, D.A., and Brockmole, J.R. (2016). Evaluating the influence of a fixated object's spatio-temporal properties on gaze control. *Attention, Perception, and Psychophysics*, 78(4): 996-1003.

Buetti, S., **Cronin, D.A.**, Madison, A., Wang, Z., and Lleras, A. (2016). Towards a better understanding of parallel visual processing in human vision: Evidence for exhaustive analysis of visual information. *Journal of Experimental Psychology: Human Perception and Performance*, 145(6): 672-707.

Brockmole, J.R., Davoli, C.C., **Cronin, D.A.** (2012). The visual world in sight and mind: How attention and memory interact to determine visual experience. In B. Ross (Ed.), *The Psychology of Learning and Motivation, Volume 57*.

Conference Presentations, Posters and Invited Talks

Cronin, D.A., & Irwin, D.E. (Nov. 2018). Effects of object correspondence and visual transients on saccade target displacement detection. Poster presented at the annual meeting of the Psychonomic Society, New Orleans, Louisiana.

Cronin, D.A., & Irwin, D.E. (Nov. 2017). Visual working memory load disrupts detection of saccade target displacements. Poster presented at the annual meeting of the Psychonomic Society, Vancouver, BC, CA.

Cronin, D.A., Buetti, S., & Lleras, A. (May 2015). The information theory of vision: Evidence from eye-tracking. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Cronin, D.A., Buetti, S. & Lleras, A. (May 2014). The role of lure heterogeneity in logarithmic visual search. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, Florida.

Cronin, D.A., Buetti, S. & Lleras, A. (Sep. 2013). Attentional filtering during visual search. Paper presented at University of Illinois VCHP Division Colloquium, Champaign, IL.

Cronin, D.A., & Brockmole, J.R. (Nov 2012). Reference frames, motion, and animacy: Influences on gaze control. Paper presented at University of Illinois VCHP Division Colloquium, Champaign, IL.

Cronin, D.A., & Brockmole, J.R. (Nov 2012). Reference frames, apparent motion, and perceived animacy: Influences on gaze. Paper presented at the 20th annual meeting of the society for Object Perception, Attention and Memory (OPAM), Minneapolis, Minnesota.

Membership in Professional Associations

Vision Sciences Society (USA)
Psychonomic Society (USA)
Association for Psychological Sciences (APS)
Society for the Teaching of Psychology (STP) / APA Division Two

Research Awards

Graduate College Travel Award 2015; 2017
Department of Psychology Travel Award 2014, 2017

Teaching Interests

Introductory Psychology | Experimental Psychology | Sensation and Perception | Cognitive Psychology | Statistics | Research Methods | Attention | Visual Cognition | Learning and Memory | Cognitive Neuroscience

Teaching Experience

Sp 2015 – Sp 2018	Psych Introduction (PSYC 105) Teaching Assistant (Supervisor: Dr. Lisa Travis) Role: 1) Sole instructor for course: lecture two days per week, hands-on lab one day per week 2) Designed 13 lesson plans for lab days 3) Write and grade all assignments and exams 4) Hold regular office hours
Jun 2014 – Jul 2017	Perception and Sensory Processes (PSYC 230) – Summer Sessions Instructor Role: 1) Sole instructor for course 2) Write and grade all assignments and exams 3) Hold regular office hours
Fall 2014	Intro to Psychology (PSYC 100) Teaching Assistant (Supervisor: Dr. Lisa Travis) Role: 1) Sole instructor for two sections of course 2) Write and grade all assignments 3) Work with other PSYC 100 instructors to write exams 4) Hold regular office hours
Fall 2013- Sp 2014	Perception and Sensory Processes (PSYC 230) Grading Teaching Assistant Role: 1) Write and grade all assignments 2) Help instructor prepare and administer exams 3) Hold regular office hours

4) Lecture when instructor is unavailable

Teaching Awards and Certificates

May 2017

Psychology Department Award for Excellence in Undergraduate Teaching

May 2016

Sandra Goss-Lucas Award for Excellence in Teaching Introductory Psychology

May 2016

University of Illinois at Urbana-Champaign Graduate Teaching Certificate