

THADDEUS B. CZUBA, PH.D.

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Education

Ph.D. Psychology	Univ. of Texas, Austin, TX Area: Sensory Neuroscience	2012
B.S Psychology	Indiana Univ., Bloomington, IN Minor: Chemistry, Studio Art	2006

Research Experience

Postdoctoral Fellow	Huk & Cormack Lab, Univ. of Texas, Austin, TX Topic: Neural circuits for 3D motion (electrophysiology)	2016–Present
Postdoctoral Fellow	Kohn Lab, Albert Einstein College of Med., Bronx, NY Topic: Visual adaptation & population coding (electrophysiology)	2012–2016
Graduate Research	Cormack & Huk Lab, Univ. of Texas, Austin, TX Topic: Binocular 3D motion mechanisms (psychophysics & neuroimaging)	2012
CSHL Summer School	Computational Neuroscience: Vision, Cold Spring Harbor, NY	2010
Research Assistant	MacLeod Lab, Univ. of California, San Diego, CA Topic: Mechanisms of chromatic adaptation (psychophysics)	2007
Undergrad. Research	Gold Lab, Indiana Univ., Bloomington, IN Topic: Fundamentals of visual psychophysics	2006

Fellowships & Awards

UT Center for Perceptual Systems Training Grant recipient (PostDoc)	2016
UT Perceptual Systems Summer Fellowship	2010
Vision Sciences Society Student Travel Award	2010
Lloyd A. Jeffress Memorial Fellowship	2008
UT Graduate Recruitment Fellowship	2007

Publications

- Joo S. J., Czuba T. B., Cormack L. K., Huk A. C. (2016) Separate Perceptual and Neural Processing of Velocity- and Disparity-Based 3D Motion Signals. *Journal of Neuroscience*, 36(42):10791–802. ([PDF](#))
- Czuba, T.B., Huk, A. C., Cormack, L. K., Kohn, A. (2014) Area MT encodes three-dimensional motion. *The Journal of Neuroscience*, 34(47), pp.15522–33. ([PDF](#))
- Czuba, T. B., Rokers, B., Huk, A. C., Cormack, L. K. (2012). To CD or not to CD: Is there a 3D motion aftereffect based on changing disparities? *Journal of Vision*, 12(4): 7. ([PDF](#))
- Czuba, T.B., Rokers, B., Guillet, K., Huk, A.C., Cormack, L.K. (2011). Three-dimensional motion aftereffects reveal distinct direction-selective mechanisms for binocular processing of motion through depth. *Journal of Vision*, 11(10): 18. ([PDF](#))
- Rokers, B., Czuba, T.B., Cormack, L.K., Huk, A.C. (2011). Motion processing with two eyes in three dimensions. *Journal of Vision*, 11(2): 10. ([PDF](#))
- Czuba, T.B., Rokers, B., Cormack, L.K., Huk, A.C. (2010). Speed and eccentricity reveal a central role for the velocity-based cue to 3D visual motion. *Journal of Neurophysiology*, 104(5), pp. 2886-99. ([PDF](#))

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Conference Presentations

- Czuba, T.B., Kohn, A. (2015). Decoding visual stimulus orientation from adapted neural populations. *Society for Neuroscience 2015 Annual Meeting* (Poster) ([PDF](#))
- Czuba, T.B., Huk, A.C., Cormack, L.K., Kohn, A. (2014). More than meets the eye: Binocular 3D motion processing in area MT. *Annual Interdisciplinary Conference* (TALK) ([Abstract](#))
- Czuba, T.B., Cormack, L.K., Huk, A.C., Kohn, A. (2013). Neuronal selectivity for directions of 3D motion in area MT. *Vision Sciences Society 2013 Annual Meeting* (TALK) ([Abstract](#))
- Czuba, T.B., Cormack, L.K., Huk, A.C., Kohn, A. (2013). Distinct neural selectivity for 3D directions of visual motion. *COSYNE 2013 Annual Meeting* (Poster) ([PDF](#))
- Czuba, T.B., Huk, A.C., Cormack, L.K. (2011). Isolation of binocular 3D motion cues in human visual cortex. *Vision Sciences Society 2011 Annual Meeting* (Poster) ([PDF](#))
- Czuba, T.B., Cormack, L.K., Huk, A.C., Rokers, B. (2010). Distinct binocular mechanisms of 3D motion perception. *Vision Sciences Society 2010 Annual Meeting* (TALK) ([Abstract](#))
- Czuba, T.B., Cormack, L.K., Huk, A.C., Rokers, B. (2009). Selective adaptation of 3D motion mechanisms. *Society for Neuroscience 2009 Annual Meeting* (Poster) ([PDF](#))
- Czuba, T.B., Guillet, K., Cormack, L.K., Huk, A.C., Rokers, B. (2009). Selective adaptation of 3D motion mechanisms. *Vision Sciences Society 2009 Annual Meeting* (Poster) ([PDF](#))
- Czuba, T.B., Rokers, B., Cormack, L.K., Huk, A.C. (2008). Dissociation of velocity- and disparity-based cues to 3D motion perception. *Society for Neuroscience 2008 Annual Meeting* (Poster)
- Czuba, T.B., Rokers, B., Cormack, L.K., Huk, A.C. (2008). Mechanisms of 3D Motion: Binocular Cue Integration Across Space. *Vision Sciences Society 2008 Annual Meeting* (Poster)
- Czuba, T.B., Beer, R.D., MacLeod, D.I.A. (2007) Adaptation and Afterimages: A model of inverse multiplicative sensitivity adjustment. *Vision Sciences Society 2007 Annual Meeting* (Poster)

Association Memberships

Society for Neuroscience; Vision Sciences Society; Psychtoolbox-3 Contributor
Ad hoc reviewer - COSYNE Conference; The Journal of Neuroscience; Journal of Vision

Teaching & Mentorship

- Guest Lecture: "3D Motion Perception", *Sensory Systems and the Brain (BIO 337)*, UT Austin, Spring 2009, 2010.
- Teaching Assistant: Matlab Training Series, Div. of Statistics & Scientific Computing, UT Austin, Fall 2008–Fall 2009.
- Undergraduate Mentor: Kyle Guillet, 3D motion adaptation, Dean's Scholars Program, UT Austin, Fall 2008–Spring 2009