

Katharine A. Tillman – *curriculum vitae*

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Academic positions

2018– Assistant Professor, Department of Psychology The University of Texas at Austin

Education

2017 PhD, Psychology University of California, San Diego
 Constructing the concept of time: Roles of perception, language, and culture

2012 MA, Psychology University of California, San Diego

2009 BA, Psychology, *summa cum laude* New York University

Manuscripts in press or under review

Tillman, K.A., Tulagan, N., & Sullivan, J. (*under review*). Children’s spontaneous inferences about time and causality in narrative.

Tillman, K. A., Fukuda, E., & Barner, D. (*under review*). The development of preferences for conventional linear representations of time.

Starr, A., Cirolia, A. J., **Tillman, K. A.**, & Srinivasan, M. (*in revision*). Spatial metaphor facilitates word learning.

Publications

Tillman, K. A. (2019). What time words teach us about children’s acquisition of the temporal reasoning system: Commentary on Hoerl & McCormack 2019. *Behavioral and Brain Sciences*, 42.

Tillman, K. A., Tulagan, N., Fukuda, E., & Barner, D. (2018). The mental timeline is gradually constructed in childhood. *Developmental Science*, e12679.

Tillman, K. A., Marghetis, T., Barner, D., & Srinivasan, M. (2017). Today is tomorrow’s yesterday: Children’s acquisition of deictic time words. *Cognitive Psychology*, 92, 87-100.

Wagner, K., **Tillman, K. A.**, & Barner, D. (2016). Inferring number, time, and color concepts from core knowledge and linguistic structure. *Core Knowledge and Conceptual Change*. Oxford University Press.

- Tillman, K. A.** & Barner, D. (2015). Learning the language of time: Children's acquisition of duration words. *Cognitive Psychology*, 78, 57-77.
- Pelli, D. G., & **Tillman, K. A.** (2008). The uncrowded window of object recognition. *Nature Neuroscience*, 11(10):1129 – 1135.
- Pelli, D. G., **Tillman, K. A.**, Freeman, J., Su, M., Berger, T. D., & Majaj, N. J. (2007) Crowding and eccentricity determine reading rate. *Journal of Vision*, 7(2):20, 1-36.
- Pelli, D. G., & **Tillman, K. A.** (2007) Parts, wholes, and context in reading: A triple dissociation. *PLoS ONE* 2(8): e680.

Refereed conference proceedings

- Tillman, K. A.** & Walker, C. M. (2019). Children's causal reasoning about events in the past vs. the future. *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.
- Tillman, K. A.**, Wagner, K., & Barner, D. (2018). Children learn number words slowly because they don't identify number as a domain of linguistic meaning. *Proceedings of the 40th Annual Conference of the Cognitive Science Society*.
- Tillman, K. A.**, Fukuda, E., & Barner, D. (2017). Picturing time: Children's preferences for visual representations of events. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- Tillman, K. A.**, Marghetis, T., Barner, D., & Srinivasan, M. (2016). Deconstructing tomorrow: How children learn the semantics of time. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.
- Tillman, K. A.**, Tulagan, N., & Barner, D. (2015). Building the mental timeline: Spatial representations of time in preschoolers. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.
- Tillman, K. A.** & Barner, D. (2013). Learning the language of time: Children's acquisition of duration words. *Proceedings of the 35th Annual Conference of the Cognitive Science Society*.

Manuscripts in preparation

- Tillman, K. A.**, Wagner, K., & Barner, D. (*in prep*). Mr. 3: Learning number words as proper nouns improves children's identification.
- Marghetis, T., **Tillman, K. A.**, & Srinivasan, M. (*in prep*). Learning to put time in its place: The development of metaphorical gestures for time.
- Tillman, K. A.**, & Walker, C. M. (*in prep*). Children's recognition of the causal asymmetry between past and future events.

Symposia organized (*symposium co-organizers)

- Tillman, K. A.**, Zhang, M., Monier, F., Redshaw, J., & McCormack, T. (2017). Time in the mind of a child: Perspectives on the development of temporal cognition. 39th annual meeting of the Cognitive Science Society. London, UK.
- Tillman, K. A.***, Wagner, K.* , Imai, M., Malt, B., Widen, S., & Shatz, M. (2016). Beyond the language explosion: What extended word learning tells us about conceptual development. 38th annual meeting of the Cognitive Science Society. Philadelphia, PA.
- Tillman, K. A.***., Walker, E.* , Marghetis, T.* , Bender, A., Beller, S., Bergen, B., Nunez, R., Santiago, J., & Casasanto, D. (2014). Origins of time: Insights into the psychological foundations of time. 36th annual meeting of the Cognitive Science Society. Quebec City, Canada.

Fellowships and awards

- 2019 Glushko Dissertation Prize, Cognitive Science Society (\$10,000)
- 2019 UT-Austin Experiential Learning Initiative Course Developer Award (\$10,000)
- 2017 UCSD Frontiers of Innovation Scholars Program Graduate Fellowship (\$25,000)
- 2016 Society for Philosophy and Psychology Graduate Student Travel Award
- 2016 UCSD Interdisciplinary Research Award - Finalist
- 2016 UCSD Summer Graduate Teaching Fellow
- 2012-16 Norman Anderson Travel Award (6-time recipient)
- 2014 Paula Menyuk Student Travel Award for BUCLD 39
- 2014 Society for Language Development Student Award
- 2013-16 UCSD Dean of Social Sciences Travel Award (3-time recipient)
- 2012 NSF Graduate Research Fellowship Program – Honorable Mention

Refereed conference talks (*mentee)

- Tillman, K. A.** & Walker, C. M. (2019). The development of causal reasoning and children's understanding of time's arrow. Talk at the Society for Philosophy and Psychology annual meeting. San Diego, CA.
- Tillman, K. A.**, Fukuda, E.* , & Barner, D. (2018). The development of children's preferences for linear representations of temporal events. Talk at the Jean Piaget Society annual meeting. Amsterdam, The Netherlands.

- Tillman, K. A.**, Fukuda, E. *, & Barner, D. (2017). Picturing time: Children's preferences for visual representations of events. Talk at the 39th annual meeting of the Cognitive Science Society. London, UK.
- Tillman, K. A.**, Tulagan, N. *, Fukuda, E. *, & Barner, D. (2017) The development of the mental timeline. Talk at the 39th annual meeting of the Cognitive Science Society. London, UK.
- Tillman, K. A.**, Fukuda, E. *, & Barner, D. (2017). Children's preferences for visual representations of events. Talk at the 43rd annual meeting of the Society for Philosophy and Psychology. Baltimore, MD.
- Tillman, K. A.**, Wagner, K., & Barner, D. (2017). Training number words as proper nouns. Talk at the Society for Research in Child Development Biennial Meeting. Austin, TX.
- Tillman, K. A.** & Barner, D (2016). Conceptual structure and the semantics of time words. Talk at the 38th Annual Meeting of the Cognitive Science Society. Philadelphia, PA.
- Tillman, K. A.**, Marghetis, T., Barner, D., and Srinivasan, M. (2016). Deconstructing tomorrow: How children learn the semantics of time. Talk at the 38th annual meeting of the Cognitive Science Society. Philadelphia, PA.
- Tillman, K. A.** (2016). Children's acquisition of time words and the structure of temporal concepts. Talk at the 42nd annual meeting of the Society for Philosophy and Psychology. Austin, TX.
- Tillman, K. A.** (2016). What time word learning tells us about conceptual development. Talk at the Society for Cognitive and Language Development annual meeting. Los Angeles, CA.
- Tillman, K. A.**, & Barner, D (2013). Learning the language of time: Children's acquisition of duration words. Talk at the 35th Annual Conference of the Cognitive Science Society. Berlin, Germany.
- Tillman, K. A.**, Dubois, M., Schnebelen, W. *, & Pelli, D. G. (2011). Binding of text and speech by children. Talk at the Vision Sciences Society Annual Meeting. Naples, Florida.
- Pelli D. G., & **Tillman K. A.** (2008) The uncrowded window and the Bouma law. Talk at the European Conference on Vision Perception. Utrecht, The Netherlands.
- Pelli D. G. & **Tillman K. A.** (2007) Visual crowding distinguishes features, parts, and objects. Talk at the European Conference on Visual Perception. Arezzo, Italy.
- Tillman, K. A.**, Pelli, D. G., Freeman, J. *, Su, M., Berger, T., & Majaj, N (2007). Reading is crowded. Talk at the Vision Sciences Society annual meeting, Sarasota, Florida.
- Tillman K. A.**, & Pelli D. G. (2006). LWS: Three processes in reading. Talk at the European Conference on Visual Perception. St. Petersburg, Russia.
- Pelli, D. G., & **Tillman, K. A.** (2006). Crowding limits reading. Talk at the Vision Sciences Society annual meeting. Sarasota, Florida.

Refereed conference posters>(*mentee)

- Bánki, A, Markova, G, **Tillman, K. A.**, Barner, D, & Höhl, S. (2020). The development of time word comprehension and mental time travel in early childhood. Poster at the Budapest CEU Conference on Cognitive Development.
- Tillman, K. A.** & Walker, C. M. (2019). Children's causal reasoning about events in the past vs. the future. Poster at the Cognitive Science Society annual meeting. Montreal, QC.
- Tillman, K. A.**, Wagner, K., & Barner, D. (2018). Children learn number words slowly because they don't identify number as a domain of linguistic meaning. Poster at the Cognitive Science Society annual meeting. Madison, WI.
- Tillman, K. A.** & Walker, C. M. (2017). Children's reasoning about causality and past-future relationships. Poster at the Cognitive Development Society biennial meeting. Portland, OR.
- Fukuda, E. *, **Tillman, K. A.**, Tulagan, N. *, & Barner, D. (2016). Development of linear representations of time in children. Poster at the Society for Cognitive and Language Development annual meeting. Los Angeles, CA.
- Fukuda, E. *, **Tillman, K. A.**, Tulagan, N. *, & Barner, D. (2016). Development of linear representations of time in children. Poster at the Undergraduate Conference for Research in the Arts, Social Sciences and Humanities (CRASSH). San Diego, CA.
- Tillman, K. A.**, Tulagan, N. *, & Barner, D. (2015). Building the mental timeline: Spatial representations of time in preschoolers. Poster at the 37th Annual Conference of the Cognitive Science Society. Quebec City, QC.
- Tillman, K. A.**, Marghetis, T., Srinivasan, M., & Barner, D. (2015). Placeholder structures in word learning: The case of deictic time. Poster at the Boston University Conference on Language Development. Boston, MA.
- Tillman, K. A.**, Cheung, P., Tulagan, N. *, & Barner, D. (2015). Do some languages tell time better than others?: Acquisition of time words in English- and Chinese-speaking children. Poster at the Cognitive Development Society biennial meeting. Philadelphia, PA.
- Tillman, K. A.**, Marghetis, T, Al Mughairy, S., Barner, D. & Srinivasan, M. (2015). The development of explicit and implicit spatial representations of time. Poster at the Cognitive Development Society biennial meeting. Columbus, OH.
- Tillman, K. A.**, & Barner, D. (2015). Spatialization of time in preschoolers: Roles of priming and temporal language comprehension. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

- Tillman, K. A.**, Marghetis, T., Barner, D. & Srinivasan, M. (2015). When time becomes a place: Temporal gestures, timelines, and the development of children's spatial understanding of time. Poster at the Society for Research in Child Development Biennial Meeting. Philadelphia, PA.
- Tillman, K. A.** & Barner, D. (2014). Preschoolers use lexical contrast to learn duration words. Poster at the 39th annual Boston University Conference on Language Development. Boston, MA.
- Marghetis, T., **Tillman, K. A.**, Srinivasan, M., & Barner, D., (2014). Learning to put time in its place: The development of spatial gestures for time. Poster at the International Society for Gesture Studies annual meeting. San Diego, CA.
- Malik-Moraleda, S. *, **Tillman, K. A.**, & Barner, D. (2013) Time word acquisition in children. 3rd Berkeley Interdisciplinary Research Conference. Berkeley, CA.
- Malik-Moraleda, S. *, **Tillman, K. A.**, & Barner, D. (2013) The acquisition of time words in children. 23rd UCLA Psychology Undergraduate Research Conference. Los Angeles, CA.
- Tillman, K. A.**, & Pelli, D. G. (2009). Reading pictures. Poster at the Vision Sciences Society annual Meeting. Naples, Florida.
- Chakravarthi R., **Tillman K. A.**, & Pelli D. G. (2009). Features used or features available? Vision Sciences Society annual meeting, Sarasota. FL.
- Tillman, K. A.**, Araki, M*., & Pelli, D. G. (2008). Crowding shows that faces have parts and bodies do not. Poster at the European Conference on Vision Perception, Utrecht, The Netherlands.
- Cantone, A. R. *, **Tillman, K. A.**, & Pelli, D. G. (2008). Eccentric features integrate slowly. Poster at the Vision Sciences Society annual meeting. Sarasota, FL.
- Tillman, K. A.**, Pelli, D. G., Martelli, M., Stott, J. *, & Rosenblatt, J. * (2006). Is reading serial? *Journal of Vision*, 6(6):995. Poster presented at the Vision Sciences Society annual meeting, Sarasota, FL.
- Pelli D. G., **Tillman, K. A.** (2005). Spatial and temporal recognition processes in reading. European Conference on Visual Perception. A Coruna, Spain.
- Pelli, D. G., Su, M., Berger, T.D., Majaj, N.J., Martelli, M., Guo, S., & **Tillman, K. A.** (2005). Crowding, shuffling, and capitalizing reveal three processes in reading. Poster at the Vision Sciences Society annual meeting. Sarasota, FL.

Invited talks

Dec 11, 2019 Origins of Temporal Concepts workshop; Queens University, Belfast

Nov 14, 2019 STEM Center; School of Education; UT-Austin

July 26, 2019 Glushko Symposium, Cognitive Science Society; Montreal, QC

- May 4, 2018 Time and the Observer interdisciplinary workshop; La Jolla, CA
- Sept 11, 2017 UCSD Department of Psychiatry, Markou Research Seminar Series
- Feb 15, 2017 The University of Texas at Austin, Department of Psychology
- Nov 9, 2016 Stanford University Psychology Department, Developmental Brownbag series
- Oct 19, 2016 UC-Berkeley Department of Linguistics, CogNetwork talk series
- May 9, 2008 Vision Sciences Society Satellite Symposium on Crowding; Sarasota FL

Teaching

The University of Texas at Austin

- Fall 2018 PSY 395S, Fundamentals of Developmental Psychology (graduate)
- Spring 2019 PSY 333N, Cognitive Development (undergraduate)
- Fall 2019 PSY 333N, Cognitive Development (undergraduate)*
- Spring 2020 PSY 394S, Graduate Writing Workshop (newly developed course)

*Course Developer, UT Experiential Learning Initiative

University of California, San Diego

- Summer 2016 PSYC 193, Special Topics in Psychology: The Psychology of Time (newly developed undergraduate course)

- 2011-2016 Graduate Teaching Assistant
Introduction to Psychology; General Psychology: Developmental Foundations; General Psychology: Cognitive Foundations; Introduction to Developmental Psychology; Introduction to Social Psychology; Psychology of Consciousness; Abnormal Psychology; Criminology; Psychological Disorders of Childhood; Parenting

Graduate student mentorship

Faculty advisor

James Daly, 2018–current

Dissertation committee member

- Chantal Ramirez (Advisor: Catharine Echols)
Melanie Gonzales (Advisor: David Yeager)
Anthony Dutcher (Advisor: Alison Preston)

Undergraduate honors theses supervised

2017 Eren Fukuda, UCSD, “Development of the Mental Timeline in Preschool-aged Children”
Norman Anderson Thesis Award for Contributions to Scholarship

Ad hoc reviewing

Child Development, Cognitive Science, Cognitive Science Society, Developmental Science, Heliyon, Journal of Cognition and Development, Journal of Experimental Child Psychology, Journal of Vision, Psychonomic Bulletin & Review, Trends in Language Acquisition Research

Professional memberships

Cognitive Development Society, Cognitive Science Society, Society for Language Development, Society for Philosophy and Psychology, Society for Research in Child Development

Selected media coverage

For Tillman & Barner, 2015:

New York Magazine; Yahoo! Parenting; British Psychological Society

For Pelli & Tillman, 2008:

Yahoo!; Florida Statesman; Detroit Star; Washington Square News; NYU Today

For Pelli & Tillman, 2007:

WNYC Morning Edition; Scientific American; BoingBoing; British Psychological Society; NYU Today

Fiction & essays

2010 “Locomotion.” *Storychord*, Issue 9. July 2010.

2006 “Ways to Show Affection.” *The Sun*, Issue 365. May 2006. (Writing as Virginia Eliot)

2005 “One-sentence Love Story.” *The Little Book of Water, Roads, Violence, Fireflies, Cigarettes, Heartbreak, Distance, Death, Devastation and L’Amour*. Ed. Leigh Stein.

2005 “Dirt.” *Slash Magazine*, Issue 2.

2005 “Cross-pollination” (with Leigh Stein). *Hothouse*, Issue 2. Ed. Roxanne M. Carter. Persephassa Press.

2005 “Land of Enchantment.” *InTheFray*. November 2005.
 (Voted Best of ‘Imagine’ 2005)

- 2005 “Password Protection.” *Kiss Machine*, Issue 11 (the Shame Issue).
- 2005 “Intimacy: Photos by Helena Kvarnström” (Gallery introduction). *Nerve.com*.
2004. *Helena Kvarnström: New Photography* (Catalog introduction). For Studio 19 Gallery (Easthampton, MA). Birchlane Press.
- 2004 “The Secret Collector.” *Hothouse*, Issue 1. Ed. Roxanne M. Carter. Persephassa Press.
- 2003 “On Girls and Boys.” *Sleeps With Monsters*, Issue 1. Ed. Leigh Stein.
- 2002 *Olive Food*. Self-published artist’s book / creative writing collection.
- 2001 “Vignette.” *Birchlane*, Vol 1. Ed. Bruce Barone. Birchlane Press.

Photography exhibitions

- 2009 Synthetic Zero Art Space, New York City
- 2007 Synthetic Zero Art Space, New York City
- 2005 INTIMACY: human people, Campbell Works Gallery, London, UK
- 2004 19 @ 19, Studio 19 gallery, Easthampton, MA