

Kelly M. Goedert

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ACADEMIC POSITIONS

2012-present Faculty, Data Visualization and Analysis Program, Seton Hall University, South Orange, NJ
2010-present Associate Professor, Department of Psychology, Seton Hall University, South Orange, NJ
2005-2010 Assistant Professor, Department of Psychology, Seton Hall University, South Orange, NJ
2001-2005 Assistant Professor, Department of Psychology, Pacific Lutheran University, Tacoma, WA

EDUCATION

Ph.D., Cognitive Psychology, University of Virginia, 1997-2001
M.A., Applied Experimental Psychology, Western Kentucky University, 1994-1996
B.A., Psychology, Western Kentucky University, 1990-1994

ADDITIONAL TRAINING

Massachusetts General Hospital-Martinos Center visiting fellowship in fMRI, June 2004

RESEARCH INTERESTS

- Covariation and causal reasoning
- Spatial representations and spatial neglect
- Attention
- Memory for motor and visuomotor skills

AWARDS AND FUNDING

Awards

Provost's Faculty Scholarship Top Tier Journal Award, Seton Hall University (2005)
Psychology Department Professor of the Year, Pacific Lutheran University (2004-2005)
Psychology Department Professor of the Year, Pacific Lutheran University (2002-2003)
Dissertation Year Fellowship Award, University of Virginia (2000)
Distinguished Teaching Fellowship, University of Virginia (1999)

External Funding

- 2008-2012 Co-investigator on National Institutes of Health R01. PI: Anna M. Barrett. Project title: "Building a science for treatment of spatial neglect." Sub-contract: \$42,972.
- 2008-2009 Mentor to Minority Academic Careers undergraduate fellow, Stephanie Cox: \$1,000
- 2004 Women in Cognitive Science Travel Award: \$2,000

Internal Funding (Seton Hall University)

- Summer 2007 University Research Council Summer Stipend (Project Title: Investigating How Visual Point of Focus Affects Causal Inference; \$6,000)
- Summer 2007 Summer Undergraduate Research Fellowship (w/ student L. Czarnecki; \$2500 for student; \$1000 for faculty)

Internal Funding (Pacific Lutheran University)

- 2004 – 2005 Regency Advancement Award (Project Title: MGH Visiting Fellowship Program in fMRI; \$3,500)
- 2003 – 2004 Wang International Center Curriculum Development Grant (\$2,000)
- 2002 – 2003 Regency Advancement Award (Project Title: Causal Discounting; \$3,500)

Funding for research with undergraduates: S. Erving Severtson Research Fellowship and Forest Foundation Undergraduate Student / Faculty Research Program

- 2004 – 2005 students L. Fisher and J. Miller; \$2,000 for each student, \$700 for faculty
- 2003 – 2004 student E. Hessler; \$2,000 for student; \$500 for faculty
- 2002 – 2003 student J. Harsch; \$2,000 for student; \$500 for faculty

PUBLICATIONSJournal Articles*Under Review/Revision*

- Goedert, K.M.**, Chen, P., Boston, R.C., & Barrett, A.M. Prism adaptation only benefits neglect patients with aiming spatial-motor deficits.
- Goedert, K.M.**, Eiter, B.M., & Czarnecki, L. Bias in the spatial distribution of attention affects causal inference from contingency.
- Maxfield, J.T., & **Goedert, K.M.** Regulatory fit affects speed-accuracy trade-off, not working memory.
- Chen, P., **Goedert, K.M.**, Shah, P., Foundas, A., & Barrett, A. Integrity of medial visuomotor pathway predicts better recovery in neglect patients receiving prism adaptation treatment.

Published

- Chen, P., & **Goedert, K.M.** (in press). Clock drawing in spatial neglect: A comprehensive analysis of clock perimeter, placement, and accuracy. *Journal of Neuropsychology*.
- Chen, P., Hreha, K., Fortis, P., **Goedert, K.M.**, & Barrett, A.M. (in press). Functional assessment of spatial neglect: A review of the Catherine Bergego Scale and an introduction of the Kessler Foundation-Neglect Assessment Process. *Topics in Stroke Rehabilitation*.
- Goedert, K.M.**, Chen, P., Botticello, A., Adler, U., Masmela, J., & Barrett, A.M. (2012). Psychometric evaluation of neglect assessment in an acute post-stroke sample reveals

- novel predictor of functional outcomes. *Archives of Physical Medicine & Rehabilitation*, 93, 137-142.
- Fortis, P., Chen, P., **Goedert, K.M.**, & Barrett, A.M. (2011). Effects of prism adaptation on motor-intentional spatial bias in neglect. *Neuroreport*, 22, 700-705.
- Chen, P., **Goedert, K.M.**, Murray, E., Kelly, K., Ahmeti, S., & Barrett, A.M. (2011). Line bisection and right hemisphere function: sex-specific changes with aging. *Journal of the International Neuropsychological Society*, 17, 455-462.
- Fortis, P., **Goedert, K.M.**, & Barrett, A.M. (2011). Prism adaptation differently affects motor-intentional and perceptual-attentional biases in healthy individuals. *Neuropsychologia*, 49, 2718– 2727.
- Goedert, K.M.**, LeBlanc, A., Tsai, S., & Barrett, A.M. (2010). Asymmetrical effects of adaptation to left and right shifting prisms depends on pre-existing attentional biases. *Journal of the International Neuropsychological Society*, 16, 795 – 804.
- Laux, J.P., **Goedert, K.M.**, & Markman, A.B. (2010). Causal discounting in the presence of a stronger cue is due to bias. *Psychonomic Bulletin & Review*, 17, 213 – 218.
- Goedert, K. M.** & Miller, J. (2008). Spacing practice sessions across days earlier rather than later in training improves performance of a visuomotor skill. *Experimental Brain Research*, 189, 189-197.
- Darling, J., **Goedert, K. M.**, Ceynar, M., Shore, W. J., & Anderson, D. A. (2007). Learning about the means to the end: What introductory psychology students report about experimental participation. *Psychology Learning and Teaching*, 6, 91 – 97.
- Goedert, K.M.**, Harsch, J., & Spellman, B.A. (2005). Discounting and conditionalization: Dissociable cognitive processes in human causal inference. *Psychological Science*, 16, 590 – 595.
- Goedert, K.M.**, & Spellman, B.A. (2005). Non-normative discounting: There is more to cue interaction effects than controlling for alternative causes. *Learning & Behavior*, 33, 197-210.
- Rosell, M.,C. Beck, D.M., Luther, K.E., **Goedert, K.M.**, Shore, W.J., & Anderson, D.A. (2005). Progression of students' knowledge about psychology: The value of experimental participation paired with course content. *Teaching of Psychology*, 32, 95-99.
- Bischoff-Grethe, A., **Goedert, K.M.**, Willingham, D.T., & Grafton, S.T (2004). Neural substrates of response-based sequence learning using fMRI. *Journal of Cognitive Neuroscience*, 16, 127-138.
- Goedert, K.M.**, & Willingham, D.B. (2002). Patterns of interference in sequence learning and prism adaptation inconsistent with the consolidation hypothesis. *Learning & Memory*, 9, 279 – 292.
- Willingham, D.B., & **Goedert, K.** (2001). The role of taxonomies in the study of human memory. *Cognitive, Affective, & Behavioral Neuroscience*, 1, 250-265.
- Willingham, D.B., & **Goedert-Eschmann, K.** (1999). The relation between implicit and explicit learning: Evidence for parallel development. *Psychological Science*, 10, 531-534.
- Mutter, S.A., & **Goedert, K. M.** (1997). Frequency discrimination versus frequency estimation: Adult age differences and the effect of divided attention. *Journal of Gerontology*, 52B, P319 - P328.

Proceedings Papers

- Goedert, K.M.** (2008). Comparison then computation: A model of independent causal efficacy. In B.C. Love, K. McRae, & V.M. Sloutsky (Eds.) *Proceedings of the 30th Annual*

Conference of the Cognitive Science Society (pp. 173-178). Austin, TX: Cognitive Science Society.

Proceedings Abstracts

- Fortis, P., Kornitzer, J., **Goedert, K.M.**, & Barrett, A.M. (2009). Effect of prism adaptation on “aiming” spatial bias and functional abilities. *Neurology*, 72, 11(Suppl 1), A332.
- Kornitzer, J., Fortis, P., **Goedert, K.M.**, Naringrekar, H., & Barrett, A.M. (2009). Prism adaptation and learning curves in spatial neglect. *Neurology*, 72, 11(Suppl 1), A332-3.
- Goedert, K.M.**, Grimm, L.R., Markman, A.B., & Spellman, B.A. (2007). Self-construal and the processing of base rate information in a contingency learning task. In D.S. McNamara, & J.G. Tafton (Eds.) *Proceedings of the 29th Annual Conference of the Cognitive Science Society* (p. 1759). Austin, TX. Cognitive Science Society.
- Goedert, K.M.** (2006). Causal necessity and alternative strength differentially influence predictions and causal judgments. In R. Sun, & N. Miyake (Eds.) *Proceedings of the 28th Annual Conference of the Cognitive Science Society* (p. 2492). Austin, TX. Cognitive Science Society.

Educational Ancillary Materials

- Goedert, K.** (2007). Solutions and test bank for S. Nolan and T. Heizen, *Statistics for the Behavioral Sciences*. Worth.
- Goedert, K.**, Walker, M., & Willingham, D.B. (2001). *Instructor’s Manual with Tests for Cognition: The Thinking Animal*. Prentice Hall.

INVITED TALKS

- Barrett, A.M. & Goedert, K.M.* (2011, February). Invited symposium at the 39th Annual Meeting of the International Neuropsychological Society. Boston, MA, “Translating prism adaptation for post-stroke neglect – Baby steps to the clinic.” *denotes presenting author
- Goedert, K.M. (2010, December). College of Staten Island, City University of New York, “Eye-tracking analysis reveals bottom-up attentional influences on contingency acquisition and causal inference.”
- Goedert, K.M. (2010, January). New York University, “Attentional biases and causal inference from contingency.”
- Goedert, K.M. (2008, October). Hofstra University’s Psychology talk series, “The role of attention in contingency learning and causal inference.”
- Goedert, K.M. (2008, March). Princeton’s Cognitive Science brown bag, “Comparison then computation: A model of independent causal efficacy.”
- Goedert, K.M. (2006, November). Invited discussant on panel, “Developing Collaborations and Networking” annual meeting of the Women in Cognitive Science Society, Houston, TX.
- Goedert, K.M. (2006, October). Rutgers *What is Cognitive Science?* series, “Characterizing causal discounting: A bias in drawing causal inferences when faced with multiple potential causes.”

RECENT PRESENTATIONS (2004 TO 2012)

- Shah, P., Chen, P., **Goedert, K.**, Foundas, A., & Barrett, A. (accepted) Integrity of medial visuomotor pathway predicts better recovery in neglect patients receiving prism adaptation

treatment. Poster to be presented at the April 2012 annual meeting of the Cognitive Neuroscience Society.

- Goedert, K.M.**, Chen, P., Boston, R., & Barrett, A.M. (accepted) Extent of motor-intentional impairment predicts recovery of spatial neglect with prism adaptation. Abstract submitted to Cognitive Neuroscience Society. Poster to be presented at the April 2012 annual meeting of the Cognitive Neuroscience Society.
- Goedert, K.M.**, Grimm, L.R., Markman, A.B. & Spellman, B.A. (2011, July). Having an Interdependent self-construal leads to greater weighting of data in causal judgment. Poster presented at the 33rd annual meeting of the Cognitive Science Society, Boston, MA.
- Maxfield, J., **Goedert, K.M.**, Cagna, C., Rementeria, R., Schaffner, R. & Kosiak, K. (2011, May). Regulatory fit impacts speed-accuracy trade-off, not working memory. Poster presented at the 23rd annual meeting of the Association for Psychological Science, Washington, D.C.
- Goedert, K.M.**, Chen, P., Botticello, A., Masmela, J., Adler, U. & Barrett, A.M. (2011, February). Assessment of spatial neglect in an acute post-stroke sample: psychometric properties of the Catherine Bergego Scale and behavioral inattention test. Poster presented at the 39th annual meeting of the International Neuropsychological Society, Boston, MA.
- Goedert, K.M.** & Eiter, B.A. (2010, August). Interaction of bottom-up and top-down attentional influences on the acquisition of contingency information. Poster presented at the annual meeting of the Cognitive Science Society, Portland, OR.
- Fortis, P., **Goedert, K.M.**, Furey, L., Barrett, A.M. (2010, February). Spatial “aiming” motor intentional systems adapt to left-, but not right-shifting optical prisms. Poster presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico.
- Goedert, K.M.**, Leblanc, A., Tsai, S-W., Barrett, A.M. (2010, February). Prism adaptation and spatial bias in young and aged subjects: Adaptation depends on pre-existing bias direction. Poster presented at the 38th Annual Meeting of the International Neuropsychological Society, Acapulco, Mexico.
- Goedert, K.M.**, & Ellefson, M.R. (2009, November). Mechanism information influences the cell-weight inequality in causal judgment from contingencies. Poster accepted for presentation at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Goedert, K.M.**, & Czarnecki, L. (2008, November). Increasing attention to potential causes increases their perceived effectiveness. Talk presented at the annual meeting of the Psychonomic Society, Chicago, IL.
- Goedert, K.M.** & Eiter, B.M. (2008, July). Eye-tracking analysis of cue competition effects reveals learned inattention. Poster presented at the annual meeting of the Cognitive Science Society, Washington, D.C.
- Leblanc, A., & **Goedert, K.M.** (2008, March). Effects of feedback and prism displacement on prism adaptation. Poster presented at the annual meeting of the Eastern Psychological Association, Boston, MA.
- Czarnecki, L., & **Goedert, K.M.** (2008, March). Is causal discounting a product of learned inattention? Poster presented at the annual meeting of the Eastern Psychological Association, Boston, MA.
- Ladny, P., & **Goedert, K.M.** (2007, November). Effects of encoding strategy on retrieval induced forgetting and inhibition. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

- Goedert, K.M.** (2006, November). Evaluating when subjects recruit the causal discounting heuristic. Talk presented at the annual meeting of the Psychonomics Society, Houston, Texas.
- Hawk, J., Behan, S., Willingham, K., Scarpinato, J., Czarnecki, L., Ladny, P., & **Goedert, K.M.** (2006, May). Uniquely associating competing procedural memories with different contexts protects against interference. Poster presented at the annual meeting of the Association for Psychological Science (2006, May). New York, NY.
- Goedert, K.M.,** & Larson, S.A. (2005, November). The useful application of a discounting heuristic in causal inference. Poster presented at the annual meeting of the Psychonomics Society, Toronto, Canada.
- Goedert, K.M.,** Harsch, J., & Spellman, B.A. (2005, April). Discounting and conditionalization: Dissociable cognitive processes in human causal inference. Poster presented at Cognitive Neuroscience Society Meeting, New York, NY.
- Fisher, L., & **Goedert, K.M.** (2005, April). Proactive, retroactive, and concurrent effects of distraction on reading comprehension. Poster presented at the Western Psychological Association Meeting, Portland, OR.
- Larson, S., Tanha, M., Clarke, R., Pelto, C., & **Goedert, K.M.** (2005, April). Causal discounting occurs regardless of the necessity of the causes. Poster presented at the Western Psychological Association Meeting, Portland, OR.
- Miller, J., Pan, S., Simms, M., Tanha, M., Larson, S., Goatz, M., & **Goedert, K.M.** (2005, April). Amount of training influences sleep-dependent improvements on visuomotor adaptation. Poster presented at the Western Psychological Association Meeting, Portland, OR.
- Goedert, K.M.,** & Spellman, B.A. (2004, November). True causal discounting exists despite controlling for alternative causes: A disconfirmation of Spellman (1996). Talk presented at the Psychonomics Society Meeting, Minneapolis, MN.
- Goedert, K.M.** (2004, April). Long-term consolidation of a visuomotor adaptation while minimizing chances for perseveration. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Goedert, K.M.,** Antalan, C., Samuelson, J., & Harsch, J. (2004, April). Causal discounting relies on spatial working memory. Poster presented at the annual meeting of the Western Psychological Association, Phoenix, AZ.
- Hessler, E., LeBrun, K., Freese, J., Fisher, L., Miller, J., Pan, S., & **Goedert, K.M.** (2004, April). Long-term consolidation of a visuomotor skill. Poster presented at the annual meeting of the Western Psychological Association, Phoenix, AZ.

PROFESSIONAL ACTIVITIES

Editorial Experience

Ad hoc reviewer for

Applied Cognitive Psychology, Archives of Physical Medicine & Rehabilitation, Behavioral Neuroscience, Cognition, Cognitive Brain Research, Cognitive Psychology, Cognitive Science, Journal of Experimental Psychology: Learning, Memory and Cognition, Journal of Experimental Psychology: Human Perception and Performance, Journal of Neuroscience, Journal of Personality and Social Psychology, Learning & Behavior, Learning and Memory, Neurobiology of Aging, PLoS One, Psychonomic Bulletin and Review, The Quarterly Journal of Experimental Psychology: Section A

Grant Reviewing

- Review group panelist for National Science Foundation
- Expert/ad hoc reviewer for the National Science Foundation
- Expert/ad hoc reviewer for Natural Sciences and Engineering Research Council of Canada.

Science Advocacy

Sponsored by the American Psychological Association to participate in their Science Advocacy Training Program. Spent a day lobbying congress on the behalf of basic behavioral research after the training program (April/May 2005).

PROFESSIONAL AFFILIATIONS

Association for Psychological Science
Psychonomic Society
Cognitive Science Society

TEACHING & UNIVERSITY SERVICE

Graduate Courses Taught

Cognition
Perception

Undergraduate Courses Taught

Sensation & Perception
Cognitive Psychology with Lab
Human Neuropsychology with Lab
Seminar: Cognitive Basis of Skill Acquisition
Seminar: Psychology of Eyewitness Testimony
Introductory Statistics with Lab
Advanced Statistics & Research Design with Lab
Introductory Psychology
History and Systems of Psychology
1-month Study Abroad Course: History of Psychology in Germany & Austria

Additional Teaching Interests

Graduate research design and analysis
Advanced statistical analysis with SPSS
Graduate or undergraduate seminar in reasoning
Graduate or undergraduate seminars in cognitive neuroscience or the neuroscience of visuomotor skill learning

Graduate M.S. Theses Supervised

Fernbach, Sharon (August 2011) Effects of error production on prism adaptation generalization during goal-oriented locomotion.
Maxfield, Justin (August 2011) The impact of regulatory fit on working memory.
Merchant, Junaid (May 2010) Self-construal and problem-solving through insight.

Czarnecki, Lindsey (August 2009) Does forced attention mediate the discounting effect?
LeBlanc, Andrew (August 2008) Visual adaptation with augmented feedback.
Ladny, Paul (May 2007) An assessment of cross-category inhibition following within-category similarity encoding.

Graduate M.S. Thesis Committee Member

Callahan, Shannon (August 2009) Memory for political messages: The role of inhibition and prior attitudes.
Knowles, Erica (May 2009) Music and language: Exploring an artificial music grammar.
Kass, Marley (May 2009) Greater sensitivity to the stimulating and anxiety effects of methamphetamine in the HIV-1 transgenic rat.
Cvasa, Greg (December 2007) Role of perceived audience in the telling of autobiographical memory narratives.
Costleigh, Brent (August 2007) Does HIV-1 affect sensitivity to addictive drugs? Methamphetamine-induced conditioned place preference in HIV-1 transgenic rats.

Undergraduate Honors Theses Supervised

Fleming, Matthew (2009-2010). Investigation of direction of prism shift and additional training on line bisection biases.
Cox, Stephanie (2008-2009). Self-construal and the use of base rates.
Czarnecki, Lindsey (2007-2008). Is causal discounting due to learned inattention?
Scarpinato, Joseph (2007-2008). The effect of spatial cues on the anatomical imitation of meaningful and meaningless gestures.
Sobin, Sean (2006-2007). The effects of environmental context on metacognitive judgments for reading comprehension.
Yen, Conway (2006-2007). The induction of spatial bias in near and far space.

Research Supervision of non-Seton Hall Students

Sponsor for Paola Fortis, a pre-doctoral visiting scholar from Milan, Italy (May 2008-April 2009) who completed her dissertation at the University of Milan, Biococca (August 2011).
Dissertation committee member for Ph.D. student, Jeff P. Laux, who completed his dissertation at the University of Texas, Austin (May 2010).

Seton Hall University Service

Provost's Graduate Task Force, Spring 2011
Co-chair, Senate Graduate Studies Committee, 2009 – 2011
Chair, Untenured Faculty Organization, 2008 – 2010
Faculty Senate Representative, May 2007 – 2011
Project Acceleration Liaison, Spring 2007 – 2011
Departmental Strategic Planning Committee, January 2007 – August 2008
Acting Co-chair, Untenured Faculty Organization, 2006 – 2008
Secretary, College of Arts & Sciences Faculty, 2006 – 2007
Organizer of Psychology Lunch Talk Series, 2006 – 2011
Graduate Advisory Committee, Fall 2006 – present
Departmental Representative to Seton Scholars Dinner, February 2006
Invited talk to the Psychology Club (Title: How I Got Here From There), September 2005

Pacific Lutheran University Service

Long Range Planning Committee, 2004-2005

Women's Studies Committee, 2004-2005

Psychology Colloquium (Title: Are Humans Smarter Than Rats? The Statistically Normative and "Rationally" Irrational Performance of Humans in Judging the Causes of Events), May 2004

Co-Creator of the department guidelines, *Milestones for the Student Majoring in Psychology*, Spring 2004

Institutional Animal Care and Use Committee, Secretary, 2003-2005

Discussant on Faith & Reason Dialogue Panel, *Animal Testing*, September 2003

Role in student production of *The Vagina Monologues*, February 2003

Psychology Club advisor, 2002-2005

Co-organizer of Social Sciences Lectures Series, Fall 2002- Fall 2004

Organizer of Bi-Annual Psychology Research Conference, 2004-2005

University Diversity Committee, 2003-2004

Department Capstone Committee, 2002-2003

Freshman / Transitional advisor, 2002-2003

Guest lecture, *The History of Neuropsychology*, in History and Systems of Psychology, Fall 2002