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POSITIONS

2009 Assistant Professor, University of California, San Diego, CA
2008 – 2009 University Research Fellow, City University, London, UK
2006 – 2008 Marie Curie Fellow, University College London, London, UK
2004 Instructor in Cognitive Science, University of California, San Diego, CA
2002 – 2004 Graduate Research Assistant, University of California, San Diego, CA
1999 – 2002 Graduate Research and Teaching Assistant, University of California, San Diego, CA
1997 – 1999 Graduate Research and Teaching Assistant, Bilkent University, Ankara, Turkey

EDUCATION

2005 PhD Cognitive Science, University of California, San Diego, CA, USA
2001 M.S. Cognitive Science, University of California, San Diego, CA, USA
1999 M.Sc. Computer Science, Bilkent University, Ankara, Turkey
1997 B.Sc. (Hons). Mathematics, Middle East Technical University, Ankara, Turkey

SELECTED FELLOWSHIPS AND AWARDS

University Research Fellowship (City University, London), 2008
Marie Curie Fellowship, University College London (European Commission), 2006-2008
Kavli Institute for Brain and Mind, Innovative Research Grant (Kavli Institute), 2005-present
Summer Institute in Cognitive Neuroscience Fellowship, Dartmouth College, Hanover, NH, USA
(McDonnell Foundation), 2004
Summer Graduate Teaching Fellowship, for teaching *Brain Disorders and Cognition*. (UCSD Academic Senate), 2004
Friends of the International Center Scholarship, UCSD, CA, USA (UCSD International Center), 2002-2003
Linguistic Society of America Summer Institute Fellowship, UCSB, Santa Barbara, CA (LSA), 2001

MEMBERSHIPS

Cognitive Neuroscience Society, 2001 - present
Society for Neuroscience, 2001 - present
Vision Sciences Society, 2003 - present
Organization for Human Brain Mapping, 2003
Sigma Xi, The Scientific Research Society, 2003
Women in Cognitive Science, 2006 - present
American Association of Artificial Intelligence (AAAI) 1998-2000
Mind Association, 1998-2000

PUBLICATIONS

Journal Papers

- Saygin, A.P.**, McCullough, S. Alac, M & Emmorey, K. (in press) Modulation of BOLD response in motion sensitive lateral temporal cortex by real and fictive motion sentences. *Journal of Cognitive Neuroscience*.
- Saygin, A.P.**, Leech, R., & Dick, F. (in press) Nonverbal auditory agnosia with lesion to Wernicke's area. *Neuropsychologia*.
- Cook, J., **Saygin, A.P.**, Swain, R. & Blakemore, S.J. (in press) Reduced sensitivity to minimum-jerk biological motion in autism spectrum conditions. *Neuropsychologia*, 47(14): 3275-8.
- Cummings, A., **Saygin, A.P.**, Bates, E., & Dick, F. (2009) Infants' recognition of meaningful verbal and nonverbal sounds. *Language Learning and Development*, 5: 172–190.
- Saygin, A.P.** & Sereno, M.I. (2008) Retinotopy and attention in human occipital, temporal, parietal and frontal cortex. *Cerebral Cortex*, 18(9): 2158-68.
- Saygin, A.P.**, Driver, J., de Sa, V.R. (2008) In the footsteps of biological motion and multisensory perception: Judgments of audio-visual temporal relations are enhanced for upright walkers. *Psychological Science*, 19(5): 469-75.
- Cummings, A., Ceponiene, R., Dick, F., **Saygin, A.P.**, Townsend, J. (2008) A developmental ERP study of verbal and non-verbal semantic processing. *Brain Research*, 1208C: 137-149.
- Saygin, A.P.** (2007) Superior temporal and premotor brain areas necessary for biological motion perception. *Brain*, 130: 2452-2461.
- Borovsky, A., **Saygin, A.P.**, Dronkers, N., Bates, E. (2007) Lesion correlates of conversational speech production deficits. *Neuropsychologia*, 45(11): 2525-33.
- Dick, F., **Saygin, A.P.**, Galati, G., Pitzalis, S., Benvolante, S., D'Amico, S., Wilson, S., Bates, E., Pizzamiglio, L. (2007) What is involved and what is necessary for complex linguistic and non-linguistic auditory processing: evidence from fMRI and lesion data. *Journal of Cognitive Neuroscience*, 19(5): 799-816.
- Hagler Jr, D.J., **Saygin, A.P.**, & Sereno, M.I. (2006) Smoothing and cluster thresholding for cortical surface-based group analysis of fMRI data. *Neuroimage*, 33: 1093-1103.
- Cummings, A., Ceponiene, R., Koyama, A., **Saygin, A.P.** & Dick, F. (2006) Auditory semantic networks for words and natural sounds. *Brain Research*, 1115: 92-107.
- Saygin, A.P.**, Dick, F. & Bates, E. (2005) An online task for contrasting auditory processing in the verbal and nonverbal domains and norms for younger and older adults. *Behavior Research Methods*, 37(1): 99-110.
- Bates, E., **Saygin, A.P.**, Moineau, S., Marangolo, P. & Pizzamiglio, L. (2005) Analyzing aphasia data in a multidimensional symptom space. *Brain and Language*, 92: 106-116.
- Arevalo, A., Moineau, S., **Saygin, A.P.**, Ludy, C., & Bates, E. (2005) In search of Noun-Verb dissociations in aphasia across three processing tasks. *Center for Research in Language Newsletter*, 17(1): 3-17.
- Dick, F., **Saygin, A.P.**, Moineau, S., Aydelott, J., & Bates, E. (2004) Language in an embodied brain: The role of animal models. *Cortex*, 40: 226-227.
- Saygin, A.P.**, Wilson, S.M., Hagler Jr., D.J., Bates, E., & Sereno, M.I. (2004) Point-light biological

motion perception activates human premotor cortex. *Journal of Neuroscience*, **24**: 6181 - 6188.

- Saygin, A.P.**, Wilson, S.M., Dronkers, N. & Bates, E. (2004) Action comprehension in aphasia: Linguistic and non-linguistic deficits and their lesion correlates. *Neuropsychologia*, **42**: 1788-1804.
- Wilson, S.M., **Saygin, A.P.**, Sereno, M.I., & Iacoboni, M. (2004) Listening to speech activates motor areas involved in speech production. *Nature Neuroscience*, **7**: 701 - 702.
- Wilson, S.M. & **Saygin, A.P.** (2004) Grammaticality judgment in aphasia: Deficits are not specific to syntactic structures, aphasic syndromes or lesion sites. *Journal of Cognitive Neuroscience*, **16** (2): 238-52.
- Bates, E., Appelbaum, M., Salcedo, J., **Saygin, A.P.**, Pizzamiglio, L. (2003) Quantifying dissociations in neuropsychological research. *Journal of Experimental and Clinical Neuropsychology*, **25**(8), 1128-1153.
- Bates, E., Wilson, S.M., **Saygin, A.P.**, Dick, F., Sereno, M.I., Knight, R., Dronkers, N. (2003) Voxel-based lesion-symptom mapping. *Nature Neuroscience*, **6**(5), 448-450.
- Saygin, A.P.**, Dick, F., Wilson, S.M., Dronkers, N.F. & Bates, E. (2003) Neural resources for processing language and environmental sounds: Evidence from aphasia. *Brain*, **126**(4): 928-945.
- Dick, F., Bussiere, J. & **Saygin, A.P.** (2002) The effects of linguistic mediation on the identification of environmental sounds. *Center for Research in Language Newsletter*, **14**(3): 3-9.
- Saygin, A.P.** & Cicekli, I. (2002) Pragmatics in human-computer conversation. *Journal of Pragmatics*, **34**(3): 227-258.
- Saygin, A.P.**, Cicekli, I., & Akman, V. (2000) Turing Test: 50 years later. *Minds and Machines*, **10**(4): 463-518.

Dissertations and Theses

- Saygin, A.P.** (2005). Embodied Perception: Neuropsychological Experiments on Language, Vision and Attention. Ph.D. Thesis. University of California San Diego, La Jolla, CA.
- Saygin, A.P.** (2001). Contrasting verbal and nonverbal auditory processing in aphasia. Unpublished M.S. Thesis. University of California San Diego, La Jolla, CA.
- Saygin, A.P.** (1999). Turing Test and conversation. Unpublished M.Sc. Thesis. Bilkent University, Ankara, Turkey.

Reviews, Commentaries, Editorials

- Saygin, A.P.** (2004) 'On Liz Bates' *Cognitive Science Online*, **2**(1): 3-6.
- Saygin, A.P.** (2001) Review of Horn, R. et.al. Mapping Great Debates: Can Computers Think? Seven maps and a handbook. *Minds and Machines*, **11**(3): 442-445.

Peer-reviewed Conference Papers †

- Salah, A.A. & **Saygin, A.P.** (2008). İnsan ve Bilgisayarda Retinotopi ve Görsel Seçici Dikkat (Retinotopy and Selective Visual Attention in Humans and Computers). *IEEE 16th Signal Processing, Communications and Applications Meeting*. April 2008, Didim, Turkey.
- Wilson, S.M., **Saygin, A.P.**, Schleicher, E., Dick, F., & Bates, E. (2003). Grammaticality judgment under

† Not otherwise published as an article in a journal or book.

non-optimal processing conditions: Deficits induced in normal participants resemble those observed in aphasic patients. *Brain and Language*, **87**(1): 67-68.

- Saygin, A.P.** & Wilson, S.M. (2002). Paradigm reanalysis and the representation of morphologically complex words in Turkish. *38th Annual Meeting of the Chicago Linguistic Society (CLS 38)*. April 2002, University of Chicago, Illinois, USA.
- Saygin, A.P.** (2001). Processing figurative language in a multilingual task: Translation, transfer and metaphor. *Corpus-Based & Processing Approaches to Figurative Language Workshop, Corpus Linguistics 2001*. March 2001, Lancaster University, Lancaster, UK.
- Wilson, S.M. & **Saygin, A.P.** (2001). Adverbs and functional heads in Turkish: Linear order and scope. *Proceedings of WECOL 2001: Western Conference on Linguistics*. Oct 25-28, Seattle, Washington, USA.
- Saygin, A.P.** (1998). Simple feature selection methods that make a difference: An application to text categorization. *Proceedings of the International Computer Symposium (ICS 98)*. Dec 1998, Tainan, Taiwan.
- Saygin, A.P.**, & Yavuz, T. (1998). Query processing in context-oriented retrieval of information. *Proceedings of the Fourth Joint Conferences on Information Science: Computer Science and Informatics (JCIS: CSI 98)*. Oct 1998, Research Triangle Park, NC, USA.

Book chapters

- Saygin, A.P.** (under revision). Biological Motion Perception and the Brain: Neuropsychological and Neuroimaging Studies. In K. Johnson & M. Shiffrar (Eds.) *Visual Perception of the Human Body in Motion: Findings, Theory, and Practice*, Oxford series in Visual Cognition, Oxford University Press.
- Saygin, A.P.** (2008). Comments on “Computing Machinery and Intelligence” by Alan Turing. In R. Epstein, G. Roberts, G. Poland, (eds.) *Parsing the Turing Test: Philosophical and Methodological Issues in the Quest for the Thinking Computer*. Springer: Dordrecht, Netherlands.
- Dick, F., Dronkers, N., Pizzamiglio, L., **Saygin, A.P.**, Small, S. L., & Wilson, S. M. (2005). Language and the brain. In M. Tomasello, & D. I. Slobin (Eds.), *Beyond Nature-Nurture: Essays in Honor of Elizabeth Bates*. Mahwah, NJ: Lawrence Erlbaum.
- Saygin, A.P.**, Cicekli, I., & Akman, V. (2000) Turing Test: 50 years later. In J. Moor (Ed.) *The Turing Test : The Elusive Standard of Artificial Intelligence*. Kluwer: Amsterdam, Netherlands.

Selected Talks

- June 5 2009 – *Body Movements: Dots to Robots*. CNRS, Mediterranean Institute for Cognitive Neuroscience, Marseille, France.
- May 25, 2009 – *Body Movements: Dots to Robots*. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- March 17, 2009 – *Body Movement Perception*. Departement D'Etudes Cognitives, École Normale Supérieure, Paris, France.
- March 16, 2009 – *Neuropsychological and Neuroimaging Studies of Body Movement Perception*. Inserm-CEA NeuroSpin Center, Unite de Neuroimagerie Cognitive, Saclay, France
- Feb 13, 2009 - *Body Movements: Dots to Robots*. Brain Meeting. Wellcome Trust Centre for Neuroimaging (FIL), University College London, UK.
- Jan 28, 2009 – *Investigating Human Brain Responses to the Movements of Humanoid Robots*. Computer Science Research Colloquium, University of Hertfordshire, Hatfield, UK.

- Sept 5, 2008 - *Voxel-based Lesion Symptom Mapping and Applications*. Invited symposium on Lesion Mapping, Federation of European Societies of Neuropsychology Annual Meeting. Sept 2008, Edinburgh, UK.
- April 21, 2008 – *Retinotopy and Attention in Human Cortex*. IEEE 16th Signal Processing, Communications and Applications Meeting, Special Session on ‘Human Vision, Computer Vision’, Didim, Turkey.
- April 3, 2008 – *Functional Mapping of V1-V7*. 8th Annual Neuroradiology and Functional Neuroanatomy Course. Institute of Neurology, London, UK.
- Jan 29, 2008 – *Form and Motion in Biological Motion Perception*. Departmental Seminar, Department of Psychology, University College London, London, United Kingdom.
- Dec 14, 2007 – *Brain and Language*. 2nd Annual Neuropsychiatry Symposium, Gazi University Medical School, Ankara, Turkey.
- Nov 2007 – *Visual Perception is Embodied Perception*. Centre for Vision and Visual Cognition Seminars. Durham University, Durham, United Kingdom.
- Nov 2007 - *Sentences describing motion events activate MT/MST*. Society for Neuroscience, San Diego, CA, USA.
- Oct 2007 – *Observation of Robot and Android Actions: An fMRI Adaptation Study*. Osaka University, Osaka, Japan.
- Oct 2006 – *Language and the Human Brain: The Classical Models and New Perspectives*, Department of Cognitive Science, Cognitive Science Colloquium, Middle East Technical University, Ankara, Turkey
- Sept 2006 – *Combining Results from Functional MRI and Voxel-Based Lesion-Mapping to Study Biological Motion Processing*, Invited symposium on Biological Motion. European Conference on Visual Perception. St.Petersburg, Russia.
- Nov 2005 – *Stimulus and Attention-Driven Retinotopic Maps in Multiple Parietal, Temporal and Frontal Areas in the Human Brain*, Society for Neuroscience, Washington DC, USA.
- Sep 2005 - *Vision as an Embodied Process*. Cognitive and Cognitive Neuroscience Seminar, Department of Psychology, Vanderbilt University, Nashville, TN, USA.
- May 2005 - *Retinotopy and its Modulation by Attention in Higher Cortical Areas Studied with Structured Motion*, 5th Annual Meeting of the Vision Sciences Society. Sarasota, Florida, USA.
- March 2005 – *Functional MRI as a Research Methodology in Android Science*. Advanced Telecommunications Research Institute (ATR), Keihanna Science City, Kyoto, Japan.
- Nov 2003 – *Visual and Motor Areas in the Human Brain are Involved in the Perception of Point-Light Biological Motion*. Society for Neuroscience, New Orleans, Louisiana, USA.
- Oct 2003 – *Neuroimaging of Biological Motion Processing*. "Brain Mapping Seminars", University of California, Los Angeles, CA, USA.
- Jan 2000 – *Turing Test: 50 years later*. Invited symposium presentation, Turing 2000: The Future of the Turing Test. Dartmouth College, Hanover, NH.