VITA

BURCU AYŞEN ÜRGEN

Department of Psychology,
Interdisciplinary Neuroscience Program,
National Magnetic Resonance Research Center (UMRAM),
Aysel Sabuncu Brain Research Center,
Bilkent University
06800, Bilkent, Ankara, Turkey.

Tel (Psychology): (+90) 312 290 1807
Tel (UMRAM): (+90) 312 290 3091
Tel (mobile): (+90) 543-864-8081

Email: burcu.urgen@bilkent.edu.tr
Personal web: http://burcu.urgen.bilkent.edu.tr
Lab website: http://www.ccn.bilkent.edu.tr

EDUCATION

PhD in Cognitive Science (2009-2015)
University of California, San Diego (UCSD), CA, USA.
Thesis Title: Spatio-temporal Neuroimaging of Visual Processing of Human and Robot Actions in Humans
Advisor: Ayşe Pınar Saygın, Associate Professor

PhD course work in Cognitive Science (2007-2009)
Middle East Technical University (METU), Ankara, Turkey

MS in Cognitive Science (2007)
Middle East Technical University, Ankara, Turkey.
Thesis Title: A Philosophical Analysis of Computational Modeling in Cognitive Science
Advisor: Samet Bagce, Associate Professor, Dept. of Philosophy
Co-advisor: Cem Bozsahin, Associate Professor, Dept. of Computer Engineering

BS (with Honors) in Computer Engineering and Information Science (2004)
Bilkent University, Ankara, Turkey.

ACADEMIC POSITIONS

Assistant Professor (September 2018 - present)
Department of Psychology,
Interdisciplinary Neuroscience Program,
UMRAM and Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Turkey.

Postdoctoral researcher (December 2015-August 2018)
Department of Medicine and Surgery (Neuroscience unit), University of Parma, Parma, Italy.
Advisor: Guy A. Orban, Professor

Research and teaching assistant (2009-2015)
Department of Cognitive Science, University of California, San Diego, CA, USA.

Research and teaching assistant (2005-2009)
Cognitive Science Program, Informatics Institute, Middle East Technical University, Ankara, Turkey.

SCIENTIFIC GRANTS

- TÜBİTAK 1001 (2021-TBD). How do we perceive social robots? Inter-generational and inter-individual differences in mind attribution to social robots. ***Principal Investigator***. Budget: TBD (contract stage)

- TÜBİTAK 3501 (2019-2022). Behavioral and neural investigation of perception of biological motion and actions in humans. ***Principal Investigator***. Budget: 340.775 TL

- TÜBİTAK 2232 (2019-2022). Rescue food reward in obesity with neuro-modulation of gut-brain signals. ***Researcher***. Budget: 3.308.415 TL

- TÜBİTAK 1001 (2021-TBD). Human perception based sketch processing. ***Researcher***. Budget: TBD (contract stage)

OTHER ACADEMIC AND ADMINISTRATIVE POSITIONS

- **2021-in progress –** *Handling Editor*, Aperture journal, Organization for Human Brain Mapping (OHBM)
- **2019-in progress:** *Human Research Ethics Committee Member*, Bilkent University
- **2019-in progress**: *Executive Committee Member*, Aysel Sabuncu Brain Research Center, Bilkent University
- **2019-in progress**: *Publicity Coordinator*, Department of Psychology, Bilkent University
- **2019-in progress:** *Panelist and External Reviewer*, TÜBİTAK 1001 and 3501 grants
- **2018-in progress:** *PhD Qualifying Exam Committee Member*, Department of Psychology, Bilkent University
- **2018-2019:** *Erasmus Program Coordinator*, Department of Psychology, Bilkent University
- **2011-2012:** *Organizer*, Distinguished Speaker Series, Department of Cognitive Science, UC San Diego, USA
- **2010-2011:** *Organizer,* Open House and Graduate Student Recruitment Committee Member, Department of Cognitive Science, UC San Diego, USA
- **2011-in progress:** *Ad hoc reviewer*: Neuroimage, Philosophical Transactions of the Royal Society B, Social Cognitive and Affective Neuroscience, Neuropsychologia, Behavioral Brain Research, PLOS One, Frontiers in Psychology, Frontiers in Neuroscience, Brain and Behavior, ACM/IEEE Human-Robot Interaction (HRI) Conference

FELLOWSHIPS, HONORS, AWARDS

- **2019:** Invited participant for the 5th TUGFOSS meeting (Turkish-German Frontiers of Social Science Symposium) organized by Alexander von Humboldt Foundation, Leipzig, Germany.
- **2018:** TUBITAK's MCSA Individual Fellowship pre-evaluation support, Ankara, Turkey.
- **2016:** Organization for Human Brain Mapping (OHBM) Travel Award, Geneva, Switzerland.
- **2015:** Summer Institute in Cognitive Neuroscience Course Fellowship, Santa Barbara, CA, USA
- **2015:** Travel Fund Award, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2014:** Dean of Social Sciences Travel Fund Award, UCSD, La Jolla, CA, USA
- **2014:** Travel Fund Award, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2013:** Interdisciplinary Scholars Award, UCSD, La Jolla, CA, USA
- **2012:** Cold Spring Harbor Laboratory Summer School Fellowship, New York, NY, USA
- **2012:** Travel Fund Award, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2011:** Graduate Excellence Award, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2011:** Friends of the International Center Scholarship, UCSD, La Jolla, CA, USA
- **2011:** Dean of Social Sciences Travel Fund Award, UCSD, La Jolla, CA, USA
- **2011:** Travel Fund Award, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2010-2011:** Graduate Student Fellowship, Qualcomm Institute, La Jolla, CA, USA
- **2009-2013:** Graduate Student Fellowship, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA
- **2004:** Graduation in Honor List, Bilkent University, Ankara, Turkey

PEER-REVIEWED JOURNAL PUBLICATIONS

***as joint first author**
+as senior author

Sawamura H, **Urgen BA**, Corbo A, Orban, GA (2020). A parietal region processing numerosity of observed actions: An fMRI study. European Journal of Neuroscience, 00:1-19.

Urgen BA, Saygin AP (2020). Predictive processing account of action perception: Evidence from effective connectivity in the action observation network. Cortex, 128, 132-142.

Urgen BA*, Pehlivan S*, Saygin AP (2019). Distinct representations in occipito-temporal, parietal, and premotor cortex during action perception revealed by fMRI and computational modeling. Neuropsychologia, 127, 35-47.

Urgen BA, Kutas M, Saygin AP (2018). Uncanny valley as a window into predictive processing in the social brain. Neuropsychologia, 114, 181-185.

Hofree G*, **Urgen BA***, Winkielman P, Saygin AP (2015). Observation and imitation of actions performed by humans, androids, and robots: An EMG study. Frontiers in Human Neuroscience, 9:364.

Urgen BA, Miller LE (2015). Towards an empirically grounded predictive coding account of action understanding. Journal of Neuroscience, 35(12), 4789-4791.

Urgen BA, Plank M, Ishiguro H, Poizner H, and Saygin AP (2013) EEG theta and mu oscillations during perception of human and robot actions. Frontiers in Neurorobotics*,* 7:19.

PREPRINTS

Urgen BA, Orban GA (2021). The unique role of parietal cortex in action observation: Functional organization for communicative and manipulative actions. bioRxiv, doi: https://doi.org/10.1101/2021.01.22.427829

Urgen BA, Saygin AP (2019). Predictive coding account of action perception: Evidence from effective connectivity in the action observation network. bioRxiv, doi: https://doi.org/10.1101/722298

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

Urgen BA, Orban GA (under review). The unique role of parietal cortex in action observation: Functional organization for communicative and manipulative actions.

Elmas HO, Er A, Saygin AP, **Urgen BA+** (in prep). The effect of prior knowledge on visual processing of agents: Time-resolved representational similarity analysis on EEG data.

Aydin BA, **Urgen BA+** (in prep). Biological motion perception in decision-making framework.

Shahdloo M, **Urgen BA**, Cukur T (in prep). Attention to action categories shifts semantic tuning toward targets across the brain

PEER REVIEWED CONFERENCE/WORKSHOP PAPERS

Saltık I, Erdil D, **Urgen BA+**. Mind perception and social robots: The role agent appearance and action types. ACM/IEEE International Conference on Human-Robot Interaction, 2021 (virtual).

Urgen BA+, Guneysu I, Yilmaz S, Cerrahoglu B, Dincer E. Do robots distract us as much as humans? The effect of human-like appearance and perceptual load. ACM/IEEE International Conference on Human-Robot Interaction, Cambridge, UK, 2020.

Sarigul B, Saltik B, Hokelek B, **Urgen BA+**. Does the appearance of an agent affect how we perceive his/her voice? Audio-visual predictive processes in human-robot interaction. ACM/IEEE International Conference on Human-Robot Interaction, Cambridge, UK, 2020.

Urgen BA*, Pehlivan S*, Saygin AP. Representational similarity of actions in the human brain. 6th Pattern Recognition in Neuroimaging (PRNI) workshop, Trento, Italy, 2016.

Urgen BA, Li A, Berka C, Kutas M, Ishiguro H, Saygin AP. "Predictive coding and the Uncanny Valley hypothesis: Evidence from electrical brain activity". Cognition: A Bridge between Robotics and Interaction Workshop at the 10th ACM/IEEE International Conference on Human-Robot Interaction, Portland, Oregon, 2015.

Urgen BA, Plank M, Ishiguro H, Poizner H, Saygin AP. "Temporal Dynamics of Action Perception: The Role of Biological Appearance and Motion Kinematics". 34th Annual Conference of Cognitive Science Society, Sapporo, Japan, 2012.

Saygin AP, Chaminade T, **Urgen BA**, Ishiguro H. "Cognitive neuroscience and robotics: A mutually beneficial joining of forces". Robotics: Science and Systems (RSS), Human-robot interaction: Perspectives and contributions to robotics from the human sciences, 2011, Los Angeles, CA, USA.

PEER-REVIEWED CONFERENCE PRESENTATIONS

Sena Er, Hüseyin O. Elmas, Ayse P. Saygin, **Burcu A. Urgen+.** The effect of prior knowledge on visual processing of agents: Time-resolved representational similarity analysis on EEG data. SfN Global Connectome, 2020 (virtual).

Hüseyin O. Elmas, Sena Er, Ayse P. Saygin, **Burcu A. Urgen+.** The effect of prior knowledge on visual processing of agents: Time-resolved representational similarity analysis on EEG data. 18th National Neuroscience Congress, 2020 (virtual).

Berfin Aydın, **Burcu A. Urgen+.** Biological motion perception in decision-making framework. 18th National Neuroscience Congress, 2020 (virtual).

Tugce Elver Boz, Halime Demirkan, **Burcu A. Urgen**. Aesthetic judgements and emotional responses to architectural boundaries in virtual reality environments. Academy of Neuroscience and Architecture (ANFA) conference, 2020 (virtual).

Begum Cerrahoglu, Ilayda Guneysu, Selin Yilmaz, **Burcu A. Urgen+**. Do robots distract us as much as humans? The effect of human-like appearance and perceptual load. 7th International Symposium on Brain and Cognitive Science, 2020 (virtual).

Imge Saltik, **Burcu A. Urgen+**. When do we perceive a mind in a robot? The effect of human-like appearance and actions. 7th International Symposium on Brain and Cognitive Science, 2020 (virtual).

Huseyin O. Elmas, Sena Er, Ayse P. Saygin, **Burcu A. Urgen+**. Temporal characteristics of visual processing of actions: Time-resolved RSA on EEG data. 7th International Symposium on Brain and Cognitive Science, 2020 (virtual).

Busra Sarigul, Imge Saltik, Batuhan Hokelek, **Burcu A. Urgen+**. Does the appearance of an agent affect how we perceive his/her voice? Audio-visual predictive processes in human-robot interaction. 7th International Symposium on Brain and Cognitive Science, 2020 (virtual).

Burcu A. Urgen, Pietro Avanzini, Veronica Pellicia, Roberto Mai, Giorgio Lo Russo, Guy A. Orban. Spatiotemporal dynamics of action observation during and after touch events: A stereo EEG study. DyViTo – Vision and Touch Workshop, Capadocia, Turkey, 2019 (poster).

Mohammed Shahdloo, **Burcu A. Urgen**, Tolga Çukur. Attention to action categories shifts semantic tuning toward targets across the brain. Annual Meeting of Organization for Human Brain Mapping, Rome, Italy, 2019 (poster).

Burcu A. Urgen, Stefania Ferri, Guy A. Orban. Natural observed action classes in the human brain. Annual Meeting of Society for Neuroscience, San Diego, CA, USA, 2018 (talk).

Ayse P. Saygin, **Burcu A. Urgen**. Predictive coding account of action perception: Evidence from effective connectivity in the action observation network. Annual Meeting of Society for Neuroscience, San Diego, CA, USA, 2018 (poster).

Burcu A. Urgen, Pietro Avanzini, Veronica Pellicia, Roberto Mai, Giorgio Lo Russo, Guy A. Orban. Spatiotemporal dynamics of action observation during and after touch events: A stereo EEG study. Annual Meeting of Society for Neuroscience, Washington, D.C., USA, 2017 (poster).

Ayse P. Saygin, **Burcu A. Urgen,** Selen Pehlivan. Representational similarity of actions in the human brain. Annual meeting of Vision Sciences Society, Tampa, Florida, USA, 2017 (talk).

Burcu A. Urgen, Guy A. Orban. Visual perception of communicative hand actions in the parietal cortex. Annual Meeting of Society for Neuroscience, San Diego, CA, 2016 (poster).

Ayse P. Saygin, **Burcu A. Urgen**, Selen Pehlivan. Visual population codes for perceived actions in the human brain. Annual Meeting of Society for Neuroscience, San Diego, CA, 2016 (poster).

Burcu A. Urgen, Selen Pehlivan, Ayse P. Saygin. Representational properties of the Action Observation Network revealed by computer vision and RSA. Annual Meeting of Organization of Human Brain Mapping, Geneva, Switzerland, 2016 (poster).

Burcu A. Urgen, Ayse P. Saygin**.** Visual action population codes in the human brain. Annual Conference of Organization for Human Brain Mapping, Honolulu, Hawai, 2015 (poster).

Burcu A. Urgen, Alvin Li, Chris Berka, Marta Kutas, Ayse P. Saygin. Predictive coding as a mechanism for uncanny valley: Event-related potentials and source localization. Annual Conference of Organization for Human Brain Mapping, Honolulu, Hawai, 2015 (poster).

Burcu A. Urgen, Ayse P. Saygin**.** Representational similarity analysis of fMRI responses in brain areas involved in visual action processing. Annual Meeting of Vision Sciences Society, Tampa, Florida, 2015 (poster).

Wednesday Bushong, **Burcu A. Urgen**, Luke E. Miller, Ayse P. Saygin. Influence of form and motion on biological motion prediction. Annual Meeting of Vision Sciences Society, Tampa, Florida, 2015 (poster).

Burcu A. Urgen, Alvin Li, Hiroshi Ishiguro, Marta Kutas, Ayse P. Saygin. Predictive account of uncanny valley: Evidence from event-related brain potentials. Annual Meeting of Psychonomic Society, 2014 (poster).

Burcu A. Urgen, Wayne Khoe, Alvin Li, Ayse P. Saygin. Visual evoked potentials in response to biological and non-biological agents. Annual Meeting of Vision Sciences Society, Tampa, Florida, 2014 (poster).

Burcu A. Urgen, Markus Plank, Hiroshi Ishiguro, Howard Poizner, Ayse P. Saygin. EEG Mu and Theta Oscillations during Perception of Human and Robot Actions, Annual Meeting of Society for Neuroscience, San Diego, 2013 (poster).

Ayse P. Saygin, **Burcu A. Urgen**, Markus Plank, Thiery Chaminade, James Kilner, Jon Driver, Howard Poizner, Marta Kutas, Chris Frith, Hiroshi Ishiguro. The Visual Processing of Body Movements Studies with Natural and Artificial Agents, Annual Meeting of Society for Neuroscience, New Orleans, 2012 (talk).

Burcu A. Urgen, Markus Plank, Marta Kutas, Howard Poizner, Ayse P. Saygin**. "**Temporal Characteristics of Neural Processing During Action Perception: The Role of Biological Form and Biological Motion". 5th Annual Inter-science of Learning Center Student and Post-doc Conference, San Diego, 2012 (poster).

Burcu A. Urgen, Markus Plank, Marta Kutas, Howard Poizner, Ayse P. Saygin. "Temporal Characteristics of Neural Processing during Action Perception: The Role of Biological Form and Biological Motion". Annual Meeting of Vision Sciences Society, Naples, Florida, USA, 2012 (poster).

Burcu A. Urgen, Markus Plank, Marta Kutas, Howard Poizner, Ayse P. Saygin. "ERP Signatures Associated with Biological Form and Biological Motion Processing During Action Perception". Annual Meeting of Cognitive Neuroscience Society, Chicago, USA, 2012 (poster).

Ayse P. Saygin, Thierry Chaminade, **Burcu A. Urgen**, Hiroshi Ishiguro, Jon Driver, Chris Frith. "The Perception of Body Movements: The Role of Biological Motion and Form". Annual Meeting of Vision Sciences Society, 2011, Naples, Florida, USA (poster).

Burcu A. Urgen, Donald J. Hagler, Jon Driver, Ayse P. Saygin. "Top-down and Bottom-up Modulation of Retinotopic Activity in Temporal and Parietal Cortex". Annual Meeting of Vision Sciences Society, 2011, Naples, Florida, USA (poster).

Burcu A. Urgen, Markus Plank, Howard Poizner, Ayse P. Saygin. "Social Cognition and Interactive Artifical Agents". 10th Anniversary Celebration of California Institute for Telecommunications and Information Technology, 2010, La Jolla, CA, USA (poster).

Ayse P. Saygin, **Burcu A. Urgen**, Donald J. Hagler, Jon Driver. "Retinotopic Maps in Human Cortex: Effects of stimulus structure, attentional load and top-down attention". Annual Meeting of Society for Neuroscience, 2010, San Diego, CA, USA (poster).

THESES

Burcu Aysen Urgen. "Spatio-temporal Neuroimaging of Visual Processing of Human and Robot Actions in Humans". UCSD, La Jolla, CA (PhD Thesis, 2015).

Burcu Aysen Urgen. "A Philosophical Analysis of Computational Modeling in Cognitive Science"
Middle East Technical University, Ankara, Turkey (Master Thesis, 2007).

INVITED TALKS/SEMINARS

2020: Interdisciplinary studies between cognitive neuroscience and social robotics: A case from action perception. Talk at Max Planck Institute for Human Development (virtual).

2020: Visual perception of actions: Interdisciplinary studies between cognitive neuroscience and social robotics. Talk at TUGFOSS (Turkish-German Frontiers of Social Sciences) conference (virtual).

2020: No place for barriers: An interdisciplinary and intercontinental journey in search of human brain and mind. Talk at Growing Up in Science event in Turkey (virtual).

2020: Visual perception of actions: Interdisciplinary studies between cognitive neuroscience and social robotics. Talk at GENMET conference organized by Gazi University Medical School, Ankara, Turkey.

2020: Action perception in the brain: Interdisciplinary work between cognitive neuroscience and social robotics. Talk at the Department of Psychology, Çankaya University, Ankara Turkey.

2019: How do we understand others' actions: Interdisciplinary studies between cognitive neuroscience and social robotics. Talk at the Neuroscience Days organized by Bilkent Genetics Society and Bilkent Psychology Club, Bilkent University, Ankara, Turkey.

2018: Visual perception of human and robot actions: Interdisciplinary studies between cognitive neuroscience and social robotics. Talk at the Cognitive Science program, Informatics Institute, Middle East Technical University, Ankara, Turkey.

2019: Visual perception of actions: An interdisciplinary work between cognitive neuroscience and social robotics. Talk at Ankara Cognitive Psychologists Meeting, TED University, Ankara, Turkey.

2019: How do we understand the actions of others? Interdisciplinary work between cognitive neuroscience and social robotics. Talk at Multidisciplinary Neuroscience Congress, Ankara University, Medical School, Ankara, Turkey.

2019: Cognitive Neuroscience and Social Robotics. Talk at Social Sciences in Medicine Congress, Hacettepe University, Medical School, Ankara, Turkey.

2019: Cognitive Neuroscience and Social Robotics. Talk at Brain Awareness Week activities, Gazi University, Medical School, Ankara, Turkey.

2018: Visual perception of actions: An interdisciplinary work between cognitive neuroscience and social robotics. Talk at the Mind, Brain, and Behavior Research Group, Bilkent University, Ankara, Turkey.

2018: How can computer science help us understand the neural basis of action perception? Talk at the Computer Engineering department, Hacettepe University, Ankara, Turkey.

2018: EEG experimental design, ERP components and their interpretation. Talk at EEG Workshop organized by Aysel Sabuncu Brain Research Center, Ankara, Turkey.

2018: Visual perception of actions: An interdisciplinary work between cognitive neuroscience and social robotics. Talk at the Cognitive Science program, Informatics Institute, Middle East Technical University, Ankara, Turkey.

2018: Cognitive neuroscience and social robotics. Talk at the Neuroscience Days organized by Bilkent Genetics Society and Bilkent Psychology Club, Bilkent University, Ankara, Turkey.

2018. Spatio-temporal Neuroimaging of Visual Processing of Actions in Humans. Talk at Department of Psychology, Bilkent University, Ankara, Turkey.

2016: Action perception in the human brain. Talk at the UCSD Global Summer Seminar course "Mirror Neurons and Social Cognition" as a guest lecturer, Parma, Italy.

2016: Representational similarity analysis to identify visual action codes for humans, android, and robots. Talk at "Advances in fMRI" workshop at MICCAI 2016, Athens, Greece.

2015: Action Perception in the Human Brain. Talk at the Department of Computer Engineering, Hacettepe University, Ankara, Turkey.

2015: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at COGS 1 class as a guest lecturer at UCSD, La Jolla, USA.

2015: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at Department of Neuroscience, University of Parma, Parma, Italy.

2015: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at Vision Journal Club, Experimental Psychology, University College London, London, UK.

2014: Cognitive Neuroscience and Robotics: An Interdisciplinary Approach for Artificial Agent Design. Talk at COGS 8 - Hands-on Computing class as a guest lecturer at UCSD, La Jolla, USA.

2014: Multivariate Pattern Analysis with fMRI in Cognitive Neuroscience. Talk at Department of Computer Engineering, Middle East Technical University, Ankara, Turkey.

2014: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at UMRAM, Bilkent University, Ankara, Turkey.

2014: Action Recognition in the Human Brain. Talk at COGS 1 class as a guest lecturer at UCSD, La Jolla, USA.

2014: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at Pineda Lab, Cognitive Science at UCSD, La Jolla, USA.

2014: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk at COGS 11 class as a guest lecturer at UCSD, La Jolla, USA.

2013: Spatio-temporal Neuroimaging of Visual Processing of Body Movements in Humans. Talk held at the Interdisciplinary Scholar Award Ceremony (as one of the awardees) organized by Graduate Student Association and Office of Graduate Studies, UCSD, La Jolla, USA.

2012: EEG Studies of Visual Processing of Body Movements. Talk held at the Swartz Center for Computational Neuroscience, UCSD, La Jolla, USA.

RESEARCH EXPERIENCE AND TRAINING

- **December 2015-August 2018:** Department of Medicine and Surgery, University of Parma, Italy.
  Postdoctoral Researcher (PI: Professor Guy A. Orban)

- **2009-2015:** Cognitive Neuroscience and Neuropsychology Lab, UCSD, La Jolla, CA, USA
  Graduate Student Researcher (PI: Professor Ayşe Pınar Saygın)

- **Summer 2015:** Summer Institute in Cognitive Neuroscience, Santa Barbara, CA

- **Summer 2012:** Cold Spring Harbor Laboratory, New York, USA
  Computational Neuroscience: Vision - Summer School

- **August 2010-May 2011:** Poizner Lab, Institute for Neural Computation, La Jolla, CA, USA
  Graduate Student (PI: Professor Howard Poizner)

- **March 2010-May 2010:** Multimodal Imaging Lab, UCSD, La Jolla, CA, USA
  Graduate Student (PI: Professor Donald J. Hagler)

TEACHING EXPERIENCE

Fall 2018 – present - Instructor, Dept. of Psychology, Bilkent University, Ankara, Turkey
- PSYC 101 – Introduction to Psychology I: Cognitive & Biological
- PSYC 206 – Research Methods II
- PSYC 310 – Perception, Attention, Action
- PSYC 406 – Introduction to EEG
- PSYC 506 – Introduction to EEG (graduate level)

Fall 2013 – Instructor, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA.
- COGS 119 – MATLAB for Experimental Research

2009 – 2015: Teaching Assistant, Dept. of Cognitive Science, UCSD, La Jolla, CA, USA.
Undergraduate and graduate courses assisted at UCSD:
- COGS 1 Introduction to Cognitive Science
- COGS 11 Minds and Brains
- COGS 14A Introduction to Research Methods
- COGS 102C Cognitive Studio
- COGS 107B Systems Neuroscience
- COGS 107C Cognitive Neuroscience
- COGS 119/219 MATLAB for Experimental Research
- COGS 187A Usability and Information Architecture

2005 – 2009: Teaching Assistant, Dept. of Cognitive Science, Informatics Institute, METU, Ankara, Turkey.
Graduate courses assisted at METU:
- COGS 501 Formal Languages and Linguistics
- COGS 502 Logic and Programming
- COGS 511 Computational Models of Mind
- COGS 515 Artificial Intelligence for Cognitive Science
- COGS 536 Research Methods and Statistics for Cognitive Science
- COGS 541 Language Acquisition
- COGS 590 Graduate Seminar

INDUSTRY EXPERIENCE

- June-July 2003: KOÇBANK Computer Center, Çamlıca, İstanbul, Turkey.
  Summer Intern (Database management systems)
- June-July 2002: ASELSAN (Software Company for Military), Macunköy, Ankara, Turkey.
  Summer Intern (Software engineering)

PROFESSIONAL MEMBERSHIPS

- Society for Neuroscience
- Vision Sciences Society
- Cognitive Neuroscience Society
- Women in Cognitive Science
- Organization for Human Brain Mapping

SCIENTIFIC EVENT ORGANIZATIONS

- **2020-in progress:** *Organizer*, Bilkent Cognitive Neuroscience Journal Club, Bilkent University
- **2019-2020:** *Organizer*, 7th International Symposium on Brain and Cognitive Science (ISBCS)
- **2019-2020:** *Organizer*, 18th National Neuroscience Congress and EEG Course Coordinator
- **2018-in progress**: *Advisory Committee Member*, International Conference for Brain and Cognitive Sciences
- **2018-in progress**: *Advisory Committee Member*, Symposium of Interdisciplinary AI Studies
- **2016-in progress:** *Advisory Committee Member*, International Workshop on Machine Learning for Understanding the Brain

- **2016:** *Organizer*, Neuroscience Methods in Human-Robot Interaction workshop, IEEE RO-MAN 2016 Conference, Columbia University, USA.

ACADEMIC LEADERSHIPS AND VOLUNTEER ACTIVITIES

- **September 2010 - 2015:** Graduate Student Mentor, Cognitive Neuroscience and Neuropsychology Lab, University of California, San Diego, La Jolla, CA, USA
  (*Mentored undergraduate and graduate students in EEG data collection and analysis, fMRI data collection and analysis, and behavioral and online experiments on Mechanical Turk*)

- **Summer 2010, 2011, 2012:** Graduate Student Mentor, "Research Experience for High School Students (REHS)" program organized by San Diego Supercomputer Center, University of California, San Diego, La Jolla, CA, USA
  (*Mentored high school students from San Diego area in various projects including online experiments on Amazon Mechanical Turk and character animation using 3D animation software Maya and Motion Builder*).

- **2007 - 2008:** Co-founder and co-organizer of student-run journal club "Thinking about Cognition", Middle East Technical University, Ankara, Turkey.

- **2001:** Instructor, Computer Club of Bilkent University, Ankara, Turkey
  (*Lectured and ran lab sessions on "Algorithms and Java Programming"*)

OTHER INFORMATION

Languages
English (fluent), Turkish (native), German (basic), Italian (basic).

Computational Skills
Neuroimaging modalities: Intracerebral recordings (stereo EEG), fMRI, scalp EEG.
Programming languages: MATLAB, Python, Java, C/C++, Prolog, Lisp.
Major Software: EEGLAB (EEG analysis tool), ERPLAB (EEG analysis tool), Brain Vision Analyzer (EEG Analysis tool), SPM (Data Analysis tool for Functional Magnetic Resonance Imaging), Freesurfer (automated tools for reconstruction of the brain's cortical surface from structural MRI data), AFNI (Data Analysis tool for Functional Magnetic Resonance Imaging), Caret, Princeton MVPA Toolbox, SOAR (Cognitive Modeling tool), ACT-R (Cognitive Modeling tool), Cogent (Cognitive Modeling tool)
Operating systems: UNIX/Linux, Mac OS, Windows