

# UĞURCAN VURGUN

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## RESEARCH INTERESTS

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Psycholinguistics, Language and Event Cognition; Autism; Biomedical Informatics

## EDUCATION

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**University of Pennsylvania, Philadelphia** *2019 - 2024*

Ph.D. in Linguistics (Language Processing and Event Cognition)

Department of Linguistics

Advisor: Anna Papafragou

Interdisciplinary graduate certificate in Language and Communication Sciences (LCS)

**University of Pennsylvania, Philadelphia** *2023 - 2025*

Master of Science (MS) in Biomedical Informatics

Institute for Biomedical Informatics

**Boğaziçi University, Istanbul** *2015 - 2019*

Master of Arts (MA) in Linguistics

Department of Linguistics

Thesis Title: The Syntax of Focus Particles in Turkish

Thesis Supervisors: Mine Nakipoğlu, A. Sumru Özsoy

**Koç University, Istanbul** *2002 - 2007*

Bachelor of Arts (BA) in Business Administration

College of Administrative Sciences and Economics

## TEACHING EXPERIENCE

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**University of Pennsylvania College of Liberal and Professional Studies**

LING 0001 Introduction to Linguistics

*Summer 2023 & Summer 2024*

Instructor for the course

**The Wharton School**

MGMT 8920 Advanced Study Program - Collaborative Innovation Program

*Spring 2024*

Teaching Assistant for four project teams (MBA/WEMBA students)

Professor: Xu (Henry) Han

MGMT 8920 Advanced Study Program - Collaborative Innovation Program

*Fall 2023*

Teaching Assistant for four project teams (MBA/WEMBA students)

Professor: Scott Snyder

**University of Pennsylvania**

LING 0001 Introduction to Linguistics

*Fall 2022*

Teaching Assistant for two sections

Professor: Mark Liberman

LING 001 Introduction to Linguistics

*Fall 2021*

Teaching Assistant for two sections

Professor: Gareth Roberts

LING 001 Introduction to Linguistics  
Teaching Assistant for two sections  
Professor: Martin Salzmann

Spring 2021

**Boğaziçi University, Istanbul**  
LING 101 Introduction to Linguistics  
Teaching Assistant  
Professor: Mine Nakipoğlu

Fall 2018

## PUBLICATIONS

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**Vurgun, U.**, Ji, Y., & Papafragou, A. (2024). Aspectual processing shifts visual event apprehension. *Cognitive Science*, 48(6), e13476.

Li, C., Mowery, D. L., Ma, X., Yang, R., **Vurgun, U.**, Hwang, S., Donnelly, H. K., Bandhey, H., Akhtar, Z., Senathirajah, Y., Sadhu, E. M., Getzen, E., Freda, P. J., Long, Q., Becich, M. J. (in review). Realizing the Potential of Social Determinants Data: A Scoping Review of Approaches for Screening, Linkage, Extraction, Analysis, and Interventions. *Journal of Clinical and Translational Science*.

**Vurgun, U.** (2019). The syntax of focus particles in Turkish. Unpublished master's thesis, Boğaziçi University. Advisors: Dr. H. Mine Nakipoğlu & Dr. A. Sumru Özsoy.

**Vurgun, U.** (2018). Book review - Contemporary Morphological Theories: A User's Guide. Thomas W. Stewart, 2015. Edinburgh: Edinburgh University Press. 192 pages. ISBN 978 07 486 9268 2. *Journal of Linguistic Research*, 29(2), 129-137.

## CONFERENCE PROCEEDINGS

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**Vurgun, U.**, Ji, Y., & Papafragou, A. (2024). Detecting event construal shifts in aspectual coercion. Proceedings from the 46th Annual Meeting of the Cognitive Science Society.

**Vurgun, U.**, Heesu, Y., Landau, B., & Trueswell, J. (2024). Real-time processing of symmetrical predicates: Semantic categorization over time. Proceedings from the 46th Annual Meeting of the Cognitive Science Society.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2023). Cognitive signatures of aspectual coercion. Proceedings from the 45th Annual Meeting of the Cognitive Science Society.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2022). Linguistic aspect constrains event apprehension. Proceedings from the 44th Annual Meeting of the Cognitive Science Society.

## SELECTED PRESENTATIONS

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**Vurgun, U.**, Ji, Y., & Papafragou, A. (2024). Aspectual Coercion: A New Method to Probe Aspectual Commitments. Oral presentation at the Experiments in Linguistic Meaning (ELM) Conference, University of Pennsylvania.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2024). Aspectual Coercion: A New Method to Probe Aspectual Commitments. Poster presentation at the 37th Annual Conference on Human Sentence Processing, University of Michigan, Ann Arbor.

**Vurgun, U.**, Yun, H., Landau, B., & Trueswell, J. (2024). Symmetrical or not?: A new method to probe real-time semantic categorization. Poster presentation at the 37th Annual Conference on Human Sentence Processing, University of Michigan, Ann Arbor.

**Vurgun, U.**, Cho, S., Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., et al. (2024). Detecting Autism through Automated Speech Analysis: The Role of Model Complexity and Dataset Balance.

Poster presentation at the International Society for Autism Research Annual Meeting, Melbourne, Australia.

**Vurgun, U.**, Cho, S., Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., Schillinger, S., Hauptmann, A., Covello, M., Madya, M., Lyons, M., Lee, A., Fulop, L., Adeniyi, H., Russell, A., Hicks, G., Anello, O., Walker, K., Fiumara, J., Tunç, B., Sariyanidi, E., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Detecting Autism through Automated Speech Analysis: The Role of Model Complexity and Dataset Balance. Poster presentation at the International Society for Autism Research Annual Meeting, Melbourne, Australia.

Kaviyarasu, A., **Vurgun, U.**, Hwang, S., Acevedo, A., Mowery, D. L., Abella, B. S., & Mitchell, O. J. L. (2024). Leveraging large language models to optimize clinical text analysis for in-hospital cardiac arrest identification. Poster presented at the Department of Medicine Research Day, University of Pennsylvania.

Cho, S., **Vurgun, U.**, Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., Hauptmann, A., Covello, M., Madya, M., Lyons, M., Lee, A., Fulop, L., Schillinger, S., Russell, A., Hicks, G., Walker, K., Fiumara, J., Chatham, C., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Stable Acoustic Differences between Autistic and Neurotypical Children: A Longitudinal Telephony Study. Oral presentation at the International Society for Autism Research Annual Meeting, Melbourne, Australia.

Cho, S., **Vurgun, U.**, Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., Hauptmann, A., Covello, M., Madya, M., Lyons, M., Lee, A., Fulop, L., Russell, A., Hicks, G., Fiumara, J., Pandey, J., Tunç, B., Sariyanidi, E., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Automatically-derived Lexical Features Distinguish Autistic Teens from Neurotypical Peers and Teens with Other Psychiatric Conditions in a Natural Conversation Task. Oral presentation at the International Society for Autism Research Annual Meeting, Melbourne, Australia.

Ip, Martin H. K., Putnam, O., Cho, S., **Vurgun, U.**, Lyons, M., Knox, A., Hauptmann, A., Covello, M., Madya, M., Adeniyi, H., Hicks, G., Anello, O., Walker, K., Fiumara, J., Cieri, C., Fusaroli, R., Chatham, C., Liberman, M., Schultz, R. T., Parish-Morris, J. (2024). Prosodic similarities and variation in autistic and neurotypical children: A telephone-based study of verbal counting. Oral presentation at the International Society for Autism Research Annual Meeting, Melbourne, Australia.

**Vurgun, U.**, Cho, S., Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., Hauptmann, A., Covello, M., Madya, M., Lyons, M., Lee, A., Schillinger, S., Fulop, L., Adeniyi, H., Russell, A., Fiumara, J., Hicks, G., Anello, O., Walker, K., Tunç, B., Sariyanidi, E., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Automatic classification of autism using automatic speech recognition and large language models (LLMs). Poster presentation at Meeting on Language and Autism, Durham, NC.

Cho, S., **Vurgun, U.**, Fusaroli, R., Ip, M. H. K., Pelella, M. R., Knox, A., Hauptmann, A., Covello, M., Madya, M., Lyons, M., Lee, A., Schillinger, S., Fulop, L., Russell, A., Hicks, G., Fiumara, J., Pandey, J., Tunç, B., Sariyanidi, V., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Autistic teens' word choice differs from neurotypical peers and teens with attention-deficit/hyperactivity disorder (ADHD) in a natural conversation task. Poster presentation at Meeting on Language and Autism, Durham, NC.

Ip, M. H. K., Putnam, O. C., Cho, S., **Vurgun, U.**, Lyons, M., Knox, A., Hauptmann, A., Covello, M., Fulop, L., Russell, A., Walker, K., Miller, J., Fiumara, J., Fusaroli, R., Chatham, C., Cieri, C., Lee, A., Liberman, M., Schultz, R. T., & Parish-Morris, J. (2024). Does speech prosody differ in a socially unengaging task? Preliminary findings from autistic and non-autistic children's verbal counting. Poster presentation at Meeting on Language in Autism, Durham, NC.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2023). Aspectual processing and event perception. Poster presentation at the 36th Annual Conference on Human Sentence Processing, University of Pittsburgh.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2023). Aspectual framing of events shifts online event apprehension. Poster presentation at the 98th Annual Meeting of the Linguistic Society of America,

Denver, CO.

**Vurgun, U.**, Ji, Y., & Papafragou, A. (2022). Lexical aspect maps onto event apprehension. Oral presentation at the 2nd Experiments in Linguistic Meaning Conference, University of Pennsylvania.

**Vurgun, U.** (2020). Both locative alternation variants in Turkish are change-of-state predicates with ResultPs. Oral presentation at the 4th Conference of Central Asian Language and Linguistics, Indiana University.

**Vurgun, U.** (2019). A lexical-typological approach explaining the limited existence of locative alternation in Turkish. Poster presentation at the 4th Workshop on Turkic and Languages in Contact with Turkic (Tu+4), NYU.

## GRANTS, FELLOWSHIPS, AND AWARDS

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<b>Benjamin Franklin Fellowship, University of Pennsylvania</b>	2019 - 2024
<b>University of Pennsylvania, Language and Communication Sciences Research Fund</b>	2021, 2022, 2023, 2024
<b>University of Pennsylvania, Integrated Language Sciences and Technology Research Fund</b>	2022, 2023, 2024
<b>Simons Foundation Autism Research Initiative (SFARI) Travel Award</b>	2024
<b>The 48th Annual Boston University Conference On Language Development, Diversity Travel Award</b>	2023
<b>University of Pennsylvania, GAPSA Research Travel Grant</b>	2022
<b>University of Pennsylvania, SAS Dean's Travel Subvention</b>	2022
<b>Boğaziçi University, Research Travel Grant</b>	2019
<b>Vehbi Koç Fellowship, Koç University</b>	2002 - 2007

## TECHNICAL SKILLS

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<b>Programming &amp; Analysis</b>	R, Python, PyTorch, TensorFlow, SQL
<b>Machine Learning</b>	Scikit-learn, Keras, XGBoost
<b>Large Language Models</b>	HuggingFace Transformers
	- Fine-tuning: Transfer learning, Few-shot learning
	- Advanced techniques: Prompt engineering, PEFT, LoRA
	- Deployment: Model compression, Quantization
<b>Software &amp; Tools</b>	Eye Tracking (Tobii), PCLibex, PsychoPy
<b>Statistical Analysis</b>	Mixed-effects modeling, Time series analysis
<b>Linguistic Tools</b>	TalkBank, NLTK, spaCy
<b>Version Control</b>	Git, GitHub
<b>Data Visualization</b>	ggplot2, matplotlib
<b>Cloud Platforms</b>	Microsoft Azure, Databricks

## EMPLOYMENT

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<b>Unilever, Turkey</b>	January 2008 - April 2018
<i>Latest position: Customer and Channel Development Manager</i>	

## PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

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### **American Psychological Association**

May 2024 - Present

*Member*

- Division 7: Developmental Psychology
- Division 33: Intellectual and Developmental Disabilities/Autism Spectrum Disorder

### **Wharton Founders' Club**

Oct 2023 - Present

*Member*

### **Family Resource Center, University of Pennsylvania**

Sep 2019 - Jun 2020

*Student Parent Advisory Board Member*

## REVIEWING

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Folia Linguistica

CogSci (The Annual Conference of Cognitive Science Society)

Journal of Clinical and Translational Science