



## Dora Demszky

Assistant Professor of Education and, by courtesy, of Computer Science  
Graduate School of Education

### CONTACT INFORMATION

- **Admin. Support**

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### Bio

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#### BIO

Dr. Demszky is an Assistant Professor in Education Data Science at the Graduate School of Education at Stanford University. She works on developing natural language processing methods to support equitable and student-centered instruction. She has developed tools to give feedback to teachers on dialogic instructional practices, to analyze representation in textbooks, measure the presence of dialect features in text, among others. Dr Demszky has received her PhD in Linguistics at Stanford University, supervised by Dr Dan Jurafsky. Prior to her PhD, Dr. Demszky received a BA summa cum laude from Princeton University in Linguistics with a minor in Computer Science.

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Graduate School of Education
- Assistant Professor (By courtesy), Computer Science

#### HONORS AND AWARDS

- Rising Star in AI for Social Good, Harvard CRCS (2021)

#### PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Linguistics (2023)
- B.A., Princeton University , Linguistics (2017)

#### LINKS

- Personal website: <https://www.dorademszky.com/>

### Research & Scholarship

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#### RESEARCH INTERESTS

- Curriculum and Instruction
- Data Sciences
- Social and Emotional Learning
- Teachers and Teaching

- Technology and Education

## Teaching

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### COURSES

#### 2023-24

- Education Data Science Capstone Projects: EDUC 259D (Aut)
- Education Data Science Capstone Projects: EDUC 259E (Win)
- Education Data Science Capstone Projects: EDUC 259F (Spr)
- Empowering Educators via Language Technology: CS 293, EDUC 473 (Aut)

#### 2022-23

- Education Data Science Capstone Projects: EDUC 259D (Aut)
- Education Data Science Capstone Projects: EDUC 259E (Win)
- Education Data Science Seminar: EDUC 259C (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Jim Malamut, Allen Nie

#### Master's Program Advisor

Dorna Abdi, Samin Khan, Alexa Sparks, Ashley Zhang, Jiner Zheng

#### Doctoral Dissertation Co-Advisor (AC)

Rose Wang

#### Doctoral (Program)

Mei Tan

## Publications

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### PUBLICATIONS

- **Does Feedback on Talk Time Increase Student Engagement? Evidence from a Randomized Controlled Trial on a Math Tutoring Platform**  
Demszky, D., Wang, R. E., Geraghty, S., Yu, C., Assoc Computing Machinery  
ASSOC COMPUTING MACHINERY.2024: 632-644
- **Using large language models in psychology** *NATURE REVIEWS PSYCHOLOGY*  
Demszky, D., Yang, D., Yeager, D., Bryan, C., Clapper, M., Chandhok, S., Eichstaedt, J., Hecht, C., Jamieson, J., Johnson, M., Jones, M., Krettek-Cobb, D., Lai, et al  
2023; 2 (11): 688-701
- **Can Automated Feedback Improve Teachers' Uptake of Student Ideas? Evidence From a Randomized Controlled Trial in a Large-Scale Online Course** *EDUCATIONAL EVALUATION AND POLICY ANALYSIS*  
Demszky, D., Liu, J., Hill, H. C., Jurafsky, D., Piech, C.  
2023
- **M-Powering Teachers: Natural Language Processing Powered Feedback Improves 1:1 Instruction and Student Outcomes**  
Demszky, D., Liu, J., ACM  
ASSOC COMPUTING MACHINERY.2023: 59-69
- **Measuring Conversational Uptake: A Case Study on Student-Teacher Interactions** *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL)*

Demszky, D., Liu, J., Mancenido, Z., Cohen, J., Hill, H., Jurafsky, D., Hashimoto, T.  
2021

- **Learning to Recognize Dialect Features**

Demszky, D., Sharma, D., Clark, J. H., Prabhakaran, V., Eisenstein, J., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 2315-2338

- **Measuring Conversational Uptake: A Case Study on Student-Teacher Interactions**

Demszky, D., Liu, J., Mancenido, Z., Cohen, J., Hill, H., Jurafsky, D., Hashimoto, T., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2021: 1638-1653

- **Learning to Recognize Dialect Features** *Proceedings of the 19th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*

Demszky, D., Sharma, D., Clark, J. H., Prabhakaran, V., Eisenstein, J.  
2021

- **The Role of Verb Semantics in Hungarian Verb-Object Order** *Proceedings of the Linguistic Society of America (LSA)*

Demszky, D.  
2021

- **Content Analysis of Textbooks via Natural Language Processing: Findings on Gender, Race, and Ethnicity in Texas US History Textbooks** *AERA OPEN*

Lucy, L., Demszky, D., Bromley, P., Jurafsky, D.  
2020; 6 (3)

- **GoEmotions: A Dataset of Fine-Grained Emotions**

Demszky, D., Movshovitz-Attias, D., Ko, J., Cowen, A., Nemade, G., Ravi, S., Assoc Computat Linguist  
ASSOC COMPUTATIONAL LINGUISTICS-ACL.2020: 4040-4054

- **Partelet: A Hungarian Corpus of Propaganda Texts from the Hungarian Socialist Era**

Kmetty, Z., Vincze, V., Demszky, D., Ring, O., Nagy, B., Szabo, M., Calzolari, N., Bechet, F., Blache, P., Choukri, K., Cieri, C., Declerck, T., Goggi, et al  
EUROPEAN LANGUAGE RESOURCES ASSOC-ELRA.2020: 2381-2388