

Desmond Ong

✉ desmond.c.ong@gmail.com

Publications

JOURNAL ARTICLES

1. Kade, S. A., Toit, S. A. du, Danielson, C. T., Schweizer, S., Morrison, A. S., Ong, D. C., Prasad, A., Holder, L. J., Han, J., Torok, M., & Wong, Q. J. (2024). Aberrant cognitive empathy in individuals with elevated social anxiety and regulation with emotional working memory training. *Cognition and Emotion*, 1–19. <https://doi.org/10.1080/02699931.2024.2314981>
2. Demszky, D., Yang, D., Yeager, D. S., Bryan, C. J., Clapper, M., Chandhok, S., Eichstaedt, J. C., Hecht, C., Jamieson, J., Johnson, M., Jones, M., Krettek-Cobb, D., Lai, L., Jones Mitchell, N., Ong, D. C., Dweck, C. S., Gross, J. J., & Pennebaker, J. W. (2023). Using large language models in psychology. *Nature Reviews Psychology*, 2(11), 688–701. <https://doi.org/10.1038/s44159-023-00241-5>
3. Genzer, S., Ong, D. C., Zaki, J., & Perry, A. (2022). Mu rhythm suppression over sensorimotor regions is associated with greater empathic accuracy. *Social Cognitive and Affective Neuroscience*, 17(9), 788–801. <https://doi.org/10.1093/scan/nsac011>
4. Chen, P., Teo, D. W. H., Foo, D. X. Y., Derry, H. A., Hayward, B. T., Schulz, K. W., Hayward, C., McKay, T. A., & Ong, D. C. (2022). Real-world effectiveness of a social-psychological intervention translated from controlled trials to classrooms. *Npj Science of Learning*, 7(1). <https://doi.org/10.1038/s41539-022-00135-w>
5. Goldenberg, A., Schöne, J., Huang, Z., Sweeny, T. D., Ong, D. C., Brady, T. F., Robinson, M. M., Levari, D., Zaki, J., & Gross, J. J. (2022). Amplification in the evaluation of multiple emotional expressions over time. *Nature Human Behaviour*, 6(10), 1408–1416. <https://doi.org/10.1038/s41562-022-01390-y>
6. Weisz, E., Chen, P., Ong, D. C., Carlson, R. W., Clark, M. D., & Zaki, J. (2022). A brief intervention to motivate empathy among middle school students. *Journal of Experimental Psychology: General*, 151(12), 3144–3153. <https://doi.org/10.1037/xge0001249>
7. Jospe, K., Genzer, S., Mansano, L., Ong, D., Zaki, J., Sorokey, N., & Perry, A. (2022). Impaired empathic accuracy following damage to the left hemisphere. *Biological Psychology*, 172, 108380. <https://doi.org/10.1016/j.biopsycho.2022.108380>
8. Nguyen, T.-S., Wu, Z., & Ong, D. C. (2021). Attention uncovers task-relevant semantics in emotional narrative understanding. *Knowledge-Based Systems*, 226, 107162. <https://doi.org/10.1016/j.knosys.2021.107162>
9. Weisz, E., Ong, D. C., Carlson, R. W., & Zaki, J. (2021). Building empathy through motivation-based interventions. *Emotion*, 21(5), 990–999. <https://doi.org/10.1037/emo0000929>
10. Ong, D. C., Wu, Z., Zhi-Xuan, T., Reddan, M., Kahhale, I., Mattek, A., & Zaki, J. (2021). Modeling emotion in complex stories: The stanford emotional narratives dataset. *IEEE Transactions on Affective Computing*, 12(3), 579–594. <https://doi.org/10.1109/taffc.2019.2955949>
11. Ong, D. C., Soh, H., Zaki, J., & Goodman, N. D. (2021). Applying probabilistic programming to affective computing. *IEEE Transactions on Affective Computing*, 12(2), 306–317. <https://doi.org/10.1109/taffc.2019.2905211>
12. Chen, P., Ong, D. C., Ng, J. C., & Coppola, B. P. (2021). Explore, exploit, and prune in the classroom: Strategic resource management behaviors predict performance. *AERA Open*, 7, 233285842098618. <https://doi.org/10.1177/2332858420986180>
13. Ong, D. (2024). Integration of facial and contextual cues in emotion inferences is limited and variable across categories and individuals. *Nature Communications*.

PREPRINTS

BOOKS

BOOK CHAPTERS

Professional Presentations

Psychology Department Colloquium (Cal State University, Northridge, CSUN)

2023

Public lecture at Microsoft Research

2022

Conference Papers

Evaluating Subjective Cognitive Appraisals of Emotions from Large Language Models

FINDINGS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS: EMNLP 2023

2023

Using Positive Matching Contrastive Loss with Facial Action Units to mitigate bias in Facial Expression Recognition

2022 10TH INTERNATIONAL CONFERENCE ON AFFECTIVE COMPUTING AND INTELLIGENT INTERACTION (ACII)

2022

Using Knowledge-Embedded Attention to Augment Pre-trained Language Models for Fine-Grained Emotion Recognition

2021 9TH INTERNATIONAL CONFERENCE ON AFFECTIVE COMPUTING AND INTELLIGENT INTERACTION (ACII)

2021

Using Knowledge-Embedded Attention to Augment Pre-trained Language Models for Fine-Grained Emotion Recognition

2021 9TH INTERNATIONAL CONFERENCE ON AFFECTIVE COMPUTING AND INTELLIGENT INTERACTION, ACII 2021

2021

An Ethical Framework for Guiding the Development of Affectively-Aware Artificial Intelligence

2021 9TH INTERNATIONAL CONFERENCE ON AFFECTIVE COMPUTING AND INTELLIGENT INTERACTION, ACII 2021

2021

Context-guided BERT for targeted aspect-based sentiment analysis

PROCEEDINGS OF THE AAAI CONFERENCE ON ARTIFICIAL INTELLIGENCE

2021

Context-Guided BERT for Targeted Aspect-Based Sentiment Analysis

35TH AAAI CONFERENCE ON ARTIFICIAL INTELLIGENCE, AAAI 2021

2021

Human-AI collaboration in healthcare: A review and research agenda

PROCEEDINGS OF THE ANNUAL HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES

2021

Not All Negatives are Equal: Label-Aware Contrastive Loss for Fine-grained Text Classification

EMNLP 2021 - 2021 CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING, PROCEEDINGS

2021

Pragmatically Informative Color Generation by Grounding Contextual Modifiers

PROCEEDINGS OF THE SOCIETY FOR COMPUTATION IN LINGUISTICS

2021

ReaSCAN: Compositional Reasoning in Language Grounding

PROCEEDINGS OF THE NEURAL INFORMATION PROCESSING SYSTEMS TRACK ON DATASETS AND BENCHMARKS 1 (NEURIPS DATASETS AND BENCHMARKS 2021)

2021

Honors

Faculty Teaching Excellence Award

NATIONAL UNIVERSITY OF SINGAPORE

Singapore, SG

2022

Best of IEEE Transactions on Affective Computing 2021 Paper Collection

IEEE TRANSACTIONS ON AFFECTIVE COMPUTING

NA, US

2022

Best Paper Award

IEEE AFFECTIVE COMPUTING AND INTELLIGENT INTERACTION 2021

NA, US

2021

Funding

The ConnectTown: Building empathy and community through sharing experiences

FUNDING: \$249,430

Toyota Research Institute,

2023 - 2024

Service

Cognitive Science (Journal)	NA, US
ASSOCIATE EDITOR	2023 - present
Cognitive Science Society	NA, US
CONFERENCE CO-CHAIR, 2023	2023 - 2023
IEEE Affective Computing and Intelligent Interaction	NA, US
CONFERENCE ETHICS CHAIR (2023)	2023 - 2023
IEEE Affective Computing and Intelligent Interaction	NA, US
CONFERENCE PROGRAM CO-CHAIR (2022)	2022 - 2022

Mentoring and Teaching

MENTORING

Eliana Hadjiandreou	
POSTDOC SUPERVISOR	2024 - present
Emma Gueorguieva	
PH.D. SUPERVISOR	2023 - present

TEACHING

PSY 341K Text Analysis for Behavioral Data Science	
INSTRUCTOR	2023 - 2024
PSY341K Ethics in Data Science and Affective Computing	
INSTRUCTOR	2023 - 2023