

Matthew Roddy | CV

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Experience

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| Cogito Corporation <i>Senior Machine Learning Scientist</i> <i>Machine Learning Scientist</i> | Dublin, Ireland 04/2022 – Present 06/2020 – 04/2022 |
| Trinity College Dublin <i>Post-Doctoral Researcher</i> | Dublin, Ireland 02/2020 – 06/2020 |
| KTH University <i>Visiting Researcher</i> | Stockholm, Sweden 02/2018 – 03/2018 |
| Trinity College Dublin <i>Teaching Assistant</i> | Dublin, Ireland 09/2015 – 01/2020 |
| Visilit, Event Production Startup <i>Freelance Web Developer</i> | Dublin, Ireland 10/2013 – 09/2014 |

Education

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| Trinity College Dublin <i>PhD. in Electrical Engineering</i> | Dublin, Ireland 09/2015 – 01/2020 |
| Dublin City University <i>MEng. in Electrical Engineering</i> | Dublin, Ireland 09/2014 – 08/2015 |
| University of Limerick <i>MSc. in Music Technology</i> | Limerick, Ireland 09/2012 – 08/2013 |
| Trinity College Dublin <i>BA. in Music</i> | Dublin, Ireland 09/2006 – 06/2010 |

PhD Thesis

- **Matthew Roddy**, “Neural Turn-Taking Models for Spoken Dialogue Systems,” *Trinity College Dublin*, 2021.

Refereed Conference Publications

- Matthew Perez, Mimansa Jaiswal, Minxue Niu, Cristina Gorrostieta, **Matthew Roddy**, Kye Taylor, Reza Lotfian, John Kane and Emily Mower Provost, “Mind the gap: On the value of silence representations to lexical-based speech emotion recognition”, in *Proceedings of Interspeech*, 2022.
- **Matthew Roddy**, Naomi Harte, “Neural Generation of Dialogue Response Timings,” in *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2020.
- **Matthew Roddy**, Naomi Harte, “Predictive Turn-Taking Decisions with POMDPs,” in *SigDial (Late-Breaking Results)*, 2019.

- **Matthew Roddy**, Gabriel Skantze, Naomi Harte, “Investigating Speech Features for Continuous Turn-Taking Prediction Using LSTMs,” in *Proceedings of Interspeech*, 2018.
- **Matthew Roddy**, Gabriel Skantze, Naomi Harte “Multimodal Continuous Turn-Taking Prediction Using Multiscale RNNs,” in *Proceedings of International Conference on Multimodal Interaction (ICMI)*, 2018.
- **Matthew Roddy**, Naomi Harte, “Detecting Conversational Gaze Aversion Using Unsupervised Learning,” in *Proceedings of European Signal Processing Conference (EUSIPCO)*, 2017.
- **Matthew Roddy**, Jacqueline Walker, “A Method of Morphing Spectral Envelopes of the Singing Voice for Use with Backing Vocals,” in *Proceedings of International Conference on Digital Audio Effects (DAFx14)*, 2014.

Refereed Symposium Publications.....

- **Matthew Roddy**, Naomi Harte, “Towards predicting dialog acts from previous speakers non-verbal cues”, in *Symposium on Multimodal Communication (MMSYM)*, 2017.

Services and Professional Activities

- **Reviewing:** ICASSP 2021-24, Interspeech 2022-23, ICMI 2020, CUI 2023
- **Organizing:** Organizing committee member for Interspeech 2023 (Dublin)
- **Invited Talks:**
 - Sigmedia Invited Talk, Trinity College Dublin, July 2022.
 - Machine Learning Meetup, Dublin, September 2018.
- **Certifications:**
 - AWS Certified Solutions Architect - Associate (2023)
 - Generative AI with Large Language Models - DeepLearning.AI (2023)

Languages and Technologies

Main Languages: Python, C++

Secondary Languages: Matlab, L^AT_EX, R, Shell Scripting

Technologies: PyTorch, Tensorflow, Kaldi, SciPy, NumPy, Scikit-Learn, NLTK, SpaCy, Linux, AWS, Git