Matthew Roddy | CV

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🐦 matt_roddy

Education

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

Experience

Cogito	**Dublin, Ireland**
Machine Learning Scientist	*06/2020 – Present*
Trinity College Dublin	**Dublin, Ireland**
Post-Doctoral Research Fellow	*02/2020 – 06/2020*
KTH University	**Stockholm, Sweden**
Visiting Researcher	*02/2018 – 03/2018*
Trinity College Dublin	**Dublin, Ireland**
Teaching Assistant	*09/2015 – 01/2020*
Visilit, Event Production Startup	**Dublin, Ireland**
Freelance Web Developer	*10/2013 – 09/2014*

PhD Thesis

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

Refereed Conference Publications

○ **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.

Reviewing

- ICASSP 2021, ICMI 2020

Invited Talks

- Machine Learning Meetup, Dublin, September 2018.

Languages and Technologies

Main Language: Python

Secondary Languages: C/C++, Matlab, LaTeX, R, Bash

Technologies: PyTorch, Tensorflow, Kaldi, SciPy, NumPy, scikit-learn, NLTK, SpaCy, Linux, Git, Slurm