

# Matthew Roddy | CV

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## Experience

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<b>Verint Systems</b> <i>Senior Machine Learning Scientist</i>	<b>Dublin, Ireland</b> 10/2024 – Present
<b>Cogito Corporation</b> <i>Senior Machine Learning Scientist</i> <i>Machine Learning Scientist</i>	<b>Dublin, Ireland</b> 04/2022 – 10/2024 06/2020 – 04/2022
<b>Trinity College Dublin</b> <i>Post-Doctoral Researcher</i>	<b>Dublin, Ireland</b> 02/2020 – 06/2020
<b>KTH University</b> <i>Visiting Researcher</i>	<b>Stockholm, Sweden</b> 02/2018 – 03/2018
<b>Trinity College Dublin</b> <i>Teaching Assistant</i>	<b>Dublin, Ireland</b> 09/2015 – 01/2020
<b>Visilit, Event Production Startup</b> <i>Freelance Web Developer</i>	<b>Dublin, Ireland</b> 10/2013 – 09/2014

## Education

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

## PhD Thesis

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

## Refereed Conference Publications

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- 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

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- **Reviewing:** ICASSP 2021-25, Interspeech 2022-25, 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

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**Main Languages:** C++, Python

**Technologies:** PyTorch, Tensorflow, Kaldi, K2, AWS