

Andrey Malinin

SENIOR RESEARCH SCIENTIST

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Education

Yandex Research

SENIOR RESEARCH SCIENTIST

Moscow, Russia

Aug. 2019 - Present

University of Cambridge

PHD IN INFORMATION ENGINEERING

Cambridge, UK

Oct. 2014 - Aug. 2019

- PhD Thesis: "Uncertainty Estimation in Deep Learning with application to Spoken Language Assessment". Supervisor: Prof. Mark Gales.

University of Cambridge

M.ENG. (HONS.) INFORMATION ENGINEERING

Cambridge, UK

Oct. 2010 - June 2014

- Master's Thesis: "Recurrent Neural Network Language Models" Degree Mark: Pass with Merit. Supervisor: Prof. Mark Gales.

Massachusetts Institute of Technology

EXCHANGE YEAR AT MIT

Cambridge, MA, USA

Sept. 2012 - May 2013

- Studied Computer Science and Electrical Engineering

International School of Helsinki

INTERNATIONAL BACCALAUREATE PROGRAMME

Helsinki, Finland

Aug. 1998 - May 2009

- 42 / 45 points on International Baccalaureate exams

Research Interests

Machine Learning

- Predictive uncertainty estimation
- Attention-based models
- Ensemble Methods

Natural Language Processing

- Automatic spoken language proficiency assessment
- Q/A Relevance assessment

Speech Recognition

- Language modelling & adaptation
- Confidence Score Estimation

Selected Publications

Uncertainty in Structured Prediction

A. MALININ, AND M. GALES

Submitted to International
Conference on Machine Learning
2020

Ensemble Distribution Distillation

A. MALININ, B. MLODOZENIEC AND M. GALES

In Proceedings of the International
Conference on Learning
Representations 2020
April 2020

Reverse KL-Divergence Training of Prior Networks: Improved Uncertainty and Adversarial Robustness

A. MALININ AND M. GALES

In Proceedings of the conference on
Neural Information Processing
Systems 2019
Dec. 2019

Improved Auto-Marking Confidence for Spoken Language Assessment

M. DEL VECCHIO, A. MALININ, M. GALES

In Proceedings of IEEE Spoken
Language Technology (SLT)
Workshop 2018
Dec. 2018

Predictive Uncertainty Estimation via Prior Networks

A. MALININ AND M. GALES

*In Proceedings of the conference on
Neural Information Processing
Systems 2018
Dec. 2018*

A Hierarchical attention based model for off-topic spontaneous spoken response detection

A. MALININ, K. KNILL AND M. GALES

*In Proceedings of the IEEE
Automatic Speech Recognition and
Understanding Workshop (ASRU)
Dec. 2017*

An attention based model for off-topic spontaneous spoken response detection: An Initial Study

A. MALININ, K. KNILL, A. RAGNI, Y. WANG AND M. GALES

*In Proceedings of the ISCA Workshop
on Speech and Language
Technology for Education (SLaTE)
Aug. 2017*

Incorporating Uncertainty into Deep Learning for Spoken Language Assessment

A. MALININ, A. RAGNI, Y. WANG, K. KNILL AND M. GALES.

*In Proceedings of the Association for
Computation Linguistics
Aug. 2017*

Off-topic Response Detection for Spontaneous Spoken English Assessment

A. MALININ, R. C. VAN DALEN, Y. WANG, K. KNILL AND M. GALES.

*In Proceedings of the Association for
Computation Linguistics
Aug. 2016*

Selected Conference Presentations

Neural Information Processing Systems

Vancouver, Canada

POSTER PRESENTATION:

Dec. 2019

- *Reverse KL-Divergence Training of Prior Networks: Improved Uncertainty and Adversarial Robustness*

IEEE Spoken Language Technology (SLT) Workshop 2018

Athens, Greece

POSTER PRESENTATION:

Dec. 2018

- *Improved Auto-Marking Confidence for Spoken Language Assessment*

Neural Information Processing Systems

Montreal, Canada

POSTER PRESENTATION:

Dec. 2018

- *Predictive Uncertainty Estimation via Prior Networks*

IEEE Automatic Speech Recognition and Understanding Workshop

Okinawa, Japan

POSTER PRESENTATION:

Dec. 2017

- *A Hierarchical attention based model for off-topic spontaneous spoken response detection*

Google NLP Summit

Zurich, Switzerland

POSTER PRESENTATION:

Sept. 2017

- *Incorporating Uncertainty into Deep Learning for Spoken Language Assessment*

Association for Computational Linguistics

Vancouver, Canada

ORAL PRESENTATION:

August 2017

- *Incorporating Uncertainty into Deep Learning for Spoken Language Assessment*

Cambridge Language Science Annual Symposium

Cambridge, UK

POSTER PRESENTATION:

November 2016

- *Deep Density Networks with Uncertainty for spontaneous spoken language assessment*

Association for Computational Linguistics

Berlin, Germany

POSTER PRESENTATION:

August 2016

- *Off-topic Response Detection for Spontaneous Spoken English Assessment*