



# Evgeniia Razumovskaia

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I am a PhD candidate working on multilingual Natural Language Processing at the [University of Cambridge](#). My project focuses on sample-efficient techniques to extend dialogue systems to new languages. I also worked on the topic as a research intern at [Google AI Research, London](#). My other interests include factuality and controllability of dialogue systems; during my internship at [PolyAI](#) and my [Masters research at Carnegie Mellon University](#), I worked on improving factuality of fully generative systems and combining them with their rule-based counterparts.

## EDUCATION

**PhD in Computation, Cognition and Language**, University of Cambridge

2020–now

Supervisor: [ANNA KORHONEN](#). Co-supervisor: [IVAN VULIĆ](#).

Research topic: *Multilingual dialogue systems in low data regimes*

I am working on extending dialogue systems to new languages in low-resource scenarios.

My work focuses on dialogue Natural Language Understanding and uses varied techniques, such as contrastive learning and weight alignment, to effectively use scarce annotated resources to improve multilingual capabilities of dialogue systems and other user-facing languages technologies, more generally.

**MSc in Language Technologies**, Carnegie Mellon University (GPA: 3.98; *sup.*: [MAXINE ESKENAZI](#))

2018–2019

Research Topic: *Hybrid Dialogue Systems Combining End-to-End Systems with Rules*

Projects: End-to-end dialog systems and hybrid systems with rules; human evaluation via crowdsourcing

**BSc (Hons) Cognitive Science (Informatics)**, University of Edinburgh (1<sup>st</sup> degree; *sup.*: [SIMON KING](#))

2014–2018

Thesis title: *Emotion Recognition from Speech*

## RESEARCH VISITS AND INTERNSHIPS

**Machine Learning Research Intern**, Poly AI, London UK

Jun'23 — Oct'23

*Poly AI is an innovative multilingual conversational AI startup with 200+ published papers and 6 registered patents.*

Developed a new model for answering Frequently Asked Questions by finetuning Large Language Models, which led to 58% quality improvement in comparison to preceding model

**Research Intern**, Google Research, London UK

May'22 — Sep'22

Project: In-context few-shot multilingual story generation with planning using monolingually pretrained Large Language Models

Hosts: [JOSHUA MAYNEZ](#), [SHASHI NARAYAN](#), [MIRELLA LAPATA](#), [ANNIE LOUIS](#)

**Machine Learning Research Intern**, Rasa, Berlin, Germany

Jan'20 — Oct'20

*Rasa is a leading open-source conversational AI framework.*

Conducted research for end-to-end training for Conversational AI systems while accounting for project-specific rules; developed production level code deployed as an experimental feature in Rasa's main product, Rasa Open Source.

**Graduate Research Assistant**, Carnegie Mellon University, Pittsburgh, USA

Sep'18 — Dec'19

Project: Text classification based on keywords and topics extracted from the Wikipedia using Gensim  
Supervisor: [BENJAMIN VAN DURME](#)

Project: Data Collection and Analysis of Usage of Scottish Words on Twitter during the Independence Referendum  
Supervisor: [SHARON GOLDWATER](#)

## PUBLICATIONS

Transfer-Free Data-Efficient Multilingual Slot Labeling

E. Razumovskaia, I. Vulić, and A. Korhonen

Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023; to appear)

MULTI3NLU++: A Multilingual, Multi-Intent, Multi-Domain Dataset for Natural Language Understanding in Task-Oriented Dialogue

N. Moghe, E. Razumovskaia\*, Guillou, L. K., Vulić, I., Korhonen, A., and Birch, A.

Findings of 61<sup>st</sup> Meeting of the Association for Computational Linguistics (ACL 2023); 5<sup>th</sup> *NLP4ConvAI Workshop*

Cross-Lingual Dialogue Dataset Creation via Outline-Based Generation

O. Majewska\*, E. Razumovskaia\*, E. M. Ponti, I. Vulić, and A. Korhonen

Transactions of Association for Computational Linguistics (TACL): 11, 139 – 156. (presented at EACL 2023)

Little Red Riding Hood Goes Around the Globe: Crosslingual Story Planning and Generation with Large Language Models

E. Razumovskaia, J. Mainez, A. Louis, M. Lapata, and S. Narayan

arXiv preprint arXiv: 2212.10471. Work done while interning at Google Research.

Data Augmentation and Learned Layer Aggregation for Improved Multilingual Language Understanding in Dialogue

E. Razumovskaia, I. Vulić, and A. Korhonen

Findings of 60<sup>th</sup> Meeting of the Association for Computational Linguistics (ACL 2022)

Natural Language Processing for Multilingual Task-Oriented Dialogue

E. Razumovskaia, G. Glavaš, O. Majewska, E. M. Ponti and I. Vulić

Proceedings of 60<sup>th</sup> Meeting of the Association for Computational Linguistics (ACL 2022): *Tutorial Abstracts*

Crossing the Conversational Chasm: A Primer on Multilingual Task-Oriented Dialogue Systems

E. Razumovskaia, G. Glavaš, O. Majewska, E. M. Ponti, A. Korhonen, and I. Vulić

Journal of Artificial Intelligence Research (JAIR): 74 (2022), 1351-1402

Incorporating Rules into End-to-End Dialog Systems

E. Razumovskaia, and M. Eskenazi

3<sup>rd</sup> *Conversational AI Workshop @ NeurIPS 2019*

Pretraining Methods for Dialog Context Representation Learning

S. Mehri\*, E. Razumovskaia \*, T. Zhao and M. Eskenazi

Proceedings of 57<sup>th</sup> Meeting of the Association for Computational Linguistics (ACL 2019)

Beyond Turing: Intelligent Agents Centered on the User

M. Eskenazi, S. Mehri, E. Razumovskaia, and T. Zhao

arXiv preprint arXiv:1901.06613

Evaluation of Difficulty and Complexity of Tasks: Case Study of International On-line Competition "Beaver"

E. Yagunova, S. Pozdniakov, N. Ryzhova, **E. Razumovskaia**, and N. Korovkin

International Journal of Engineering Education: 32(3), 1141-1150

Tasks Classification and Age Differences in Task Perception. Case Study of International On-line Competition "Beaver"

E. Yagunova, S. Pozdniakov, N. Ryzhova, **E. Razumovskaia**, and N. Korovkin

Proceedings of International Conference on Informatics in Schools: Situation, Evolution and Perspectives (ISSEP 2015)

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## AWARDS AND SCHOLARSHIPS

Nominated for Google PhD Scholarship and Apple AI/ML Scholars 2023 2022

(one of 3 nominated by University of Cambridge for each Scholarship)

Perry Travel Award, *Queens' College, University of Cambridge (to attend ACL'22)* 2022

Carnegie PhD Scholarship, *University of Edinburgh* (declined) 2020

Class Prize for Top Performance in BSc (Hons) Cognitive Science, *University of Edinburgh* 2018

Edinburgh Award, *University of Edinburgh* 2017

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## TEACHING

### COURSES

Computational Linguistics, *Supervisor, University of Cambridge* 2021—2023

Deep Reinforcement Learning, *Teaching Assistant, Carnegie Mellon University* 2019

Introductory Applied Machine Learning, *Tutor, Lab demonstrator, University of Edinburgh* 2017—2018

Formal and Natural Language Processing, *Tutor, University of Edinburgh* 2017—2018

Reasoning and Agents, *Tutor, University of Edinburgh* 2016—2017

### STUDENT SUPERVISOR

Undergraduate Student: Jadd Virji, *University of Cambridge*

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## TALKS

Building Dialogue Systems with Scarce Resources, *Invited Talk at EdinburghNLP, University of Edinburgh* 2023

Natural Language Processing for Multilingual Task-Oriented Dialogue, *Tutorial at ACL'22* 2022

End-to-end Dialogue Systems, *Talk at Rasa Summit* 2021

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## SKILLS

Prog. Languages: Python, Bash, Matlab

NLP Frameworks: HuggingFace toolkit, NLTK, Gensim

ML Frameworks: PyTorch, Tensorflow, JAX, Keras

Languages: English, Russian German, Italian, Latin, Ancient Greek

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## SERVICE

Center of Human-Inspired Artificial Intelligence (CHIA): Student Representative, Events on Responsible AI

Reviewer: EMNLP, ACL, NLP4ConvAI workshop