

Tim Rocktäschel

Curriculum Vitae

Employment

Industry

- 11/2024 – present **Director / Principal Scientist**, *Google DeepMind*, UK
Open-Endedness Team Lead.
- 05/2022 – 10/2024 **Senior Staff Research Scientist (L7)**, *Google DeepMind*, UK
Open-Endedness Team Lead.
- 09/2021 – 04/2022 **Manager, Research Scientist (M1)**, *Facebook AI Research (FAIR) London*, UK
Reinforcement Learning Team Lead and Area Lead.
- 03/2021 – 08/2021 **Research Scientist (E6)**, *Facebook AI Research (FAIR) London*, UK
- 08/2018 – 02/2021 **Research Scientist (E5)**, *Facebook AI Research (FAIR) London*, UK
- 05 – 09/2015 **Research Intern**, *Google DeepMind*, London, UK

Academic Appointments

- 10/2023 – present **Professor of Artificial Intelligence**, *Centre for Artificial Intelligence, Dept. of Computer Science, University College London*, UK
- 10/2024 – present **Fellow**, *European Laboratory for Learning and Intelligent Systems (ELLIS)*
- 10/2021 – 09/2023 **Associate Professor**, *Centre for Artificial Intelligence, Dept. of Computer Science, University College London*, UK
- 12/2020 – 10/2024 **Scholar**, *European Laboratory for Learning and Intelligent Systems (ELLIS)*
- 08/2018 – 09/2021 **Assistant Professor (Lecturer)**, *Centre for Artificial Intelligence, Dept. of Computer Science, University College London*, UK
- 10/2017 – 08/2018 **Junior Research Fellow**, *Jesus College, University of Oxford*, UK
- 10/2017 – 08/2018 **Stipendiary Lecturer**, *Hertford College, University of Oxford*, UK
College tutor in functional and imperative programming.
- 05/2017 – 08/2018 **Postdoctoral Researcher**, *Dept. of Computer Science, University of Oxford*, UK
Researcher on reinforcement learning.
- 09/2012 – 07/2013 **Research Assistant**, *Humboldt-Universität zu Berlin*, Berlin, Germany
- 05/2010 – 06/2012 **Student Research Assistant**, *Humboldt-Universität zu Berlin*, Berlin, Germany

Education

- 09/2013 – 04/2017 **Ph.D.**, *Dept. of Computer Science, University College London*, UK
Topic: Combining Representation Learning with Logic for Language Processing
Advisors: Sebastian Riedel, Daniel Tarlow, Thore Graepel
Examiners: Charles Sutton, Luke Dickens
- 09/2006 – 06/2012 **Diplom Informatik (equivalent to M.Sc. Computer Science)**, *Humboldt-Universität zu Berlin*, Germany, Grade: 1.2 (equivalent to first-class honors)
Subsidiary field: Psychology
- 09/1999 – 07/2006 **Abitur**, *Heinrich-Hertz Oberschule Berlin*, Germany, Grade: 1.5
Advanced courses: Mathematics, Computer Science

Achievements

Awards and Competitions

- 2024 ICML 2024 Best Paper Award for "Genie: Generative Interactive Environments"
- 2024 ICML 2024 Best Paper Award for "Debating with More Persuasive LLMs Leads to More Truthful Answers"
- 2022 ICLR 2022 Highlighted Area Chair Award
- 2021 ICLR 2021 Outstanding Area Chair Award
- 2020 Best Paper Award at AKBC for "How Context Affects Language Models' Factual Predictions"
- 2016 Best Paper Award at EMNLP Workshop on "Natural Language Processing for Social Media (SocialNLP)" for "emoji2vec: Learning Emoji Representations from their Description"
- 2016 Best Poster Award for "Reasoning about Entailment with Neural Attention" at UCL's Launch of the GPU Developers Forum sponsored by NVIDIA
- 2014 Google Exceptional Submission Award at ACL Workshop on "Semantic Parsing (SP14)" for paper on "Low-Dimensional Embeddings of Logic"
- 2013 Humboldt-Universität zu Berlin Computer Science faculty award for exceptional diploma thesis "Joint Extraction of Proteins and Bio-Molecular Events using Imperatively Defined Factor Graphs"
- 2013 Third place in the BioCreative IV CHEMDNER CDI task
- 2013 First place in the SemEval DDIEExtraction 2013 Task 9.1, and second place in Task 9.2

Fellowships

- 2017 Junior Research Fellow in Computer Science at Jesus College, University of Oxford
- 2017 Google Ph.D. Fellowship in Natural Language Processing
- 2013 Microsoft Research Ph.D. Scholarship

Professional Service

Senior Area Chair

- 2025 International Conference on Machine Learning (ICML)
- 2023 – present Conference on Neural Information Processing Systems (NeurIPS)
- 2023 – 2024 International Conference on Learning Representations (ICLR)

Area Chair

- 2021 International Conference on Machine Learning (ICML)
- 2021 – 2022 International Conference on Learning Representations (ICLR)
- 2020 – 2022 Conference on Neural Information Processing Systems (NeurIPS)
- 2019 Annual Conference of the Association for Computational Linguistics (ACL), *Machine Learning*
- 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), *Question Answering*
- 2019 Conference on Automated Knowledge Base Construction (AKBC), *Machine Learning*
- 2018 The SIGNLL Conference on Computational Natural Language Learning (CoNLL)

Editor

- 2021 – 2022 Topic Editor for *Frontiers in Artificial Intelligence: "Learning for Structured Knowledge, Reasoning, and Planning"*

Workshop Organization

- 2023 Advisor of the NeurIPS workshop on "Agent Learning in Open-Endedness (ALOE)"
- 2022 Advisor of the NeurIPS workshop on "Language and Reinforcement Learning (LaReL)"
- 2022 Co-organizer of the ICLR workshop on "Agent Learning in Open-Endedness (ALOE)"
- 2020 Co-organizer of the ICML workshop on "Language in Reinforcement Learning (LaReL)"

- 2018 Co-organizer of the ICML workshop on "Neural Abstract Machines & Program Induction (NAMPI)"
 - 2017 Co-organizer of the NeurIPS workshop on "Automated Knowledge Base Construction (AKBC)"
 - 2017 Co-organizer of the UAI workshop on "Statistical Relational AI (StarAI)"
 - 2016 Co-organizer of the NeurIPS workshop on "Neural Abstract Machines & Program Induction (NAMPI)"
 - 2016 Co-organizer of the NAACL workshop on "Automated Knowledge Base Construction (AKBC)"
- [Program Committee](#)
- journals Transactions of the ACL (2019–2021), Journal for AI Research (2017, 2018), Journal for ML Research (2017), Neural Networks (2017), BMC Bioinformatics (2017), Journal of Cheminformatics (2014)
 - conferences NeurIPS (2016–2019, top 50% reviewer in 2019), ICML (2018–2020, top 33% reviewer in 2020), ICLR (2018–2020,2025), AAAI 2019, IJCAI 2019, EMNLP (2015–2018), WWW 2018, ACL (2017, 2016), EACL 2017, COLING 2016, ISWC 2016, *SEM (2016, 2015)
 - workshops MRQA 2019, FEVER 2019, RepL4NLP (2018, 2017), Ethics in NLP 2017, StarAI 2016, NAACL-HLT SRC 2016, LD4IE 2016, KRR 2015, AKBC 2014, AHA! 2014
- [Grant Review Panels](#)
- 2020 EPSRC Turing AI Acceleration Fellowship
 - 2019 – 2021 The Royal Society International Exchange Committee
 - 2019 The Leverhulme Trust
- [Examinations](#)
- 2024 **External Examiner**, *Ph.D. of Borja Gonzalez Leon*, Advised by Murray Shanahan, Imperial College London
 - 2023 **External Examiner**, *Ph.D. of Cong Lu*, Advised by Michael Osborne, University of Oxford
 - 2023 **External Examiner**, *Ph.D. of Edoardo Cetin*, Advised by Oya Celiktutan Dikici, King's College London
 - 2022 **External Examiner**, *Ph.D. of Harrison Edwards*, Advised by Amos Storkey, University of Edinburgh
 - 2022 **External Examiner**, *Ph.D of Nuri Cingillioglu*, Advised by Alessandra Russo, Imperial College London
 - 2022 **External Examiner**, *Ph.D. of Rémy Portelas*, Advised by Pierre-Yves Oudeyer, Inria Bordeaux
 - 2021 **External Examiner**, *Ph.D. of Roberta Raileanu*, Advised by Rob Fergus, New York University
 - 2021 **External Examiner**, *Ph.D. of Ivana Balazevic*, Advised by Timothy Hospedales, University of Edinburgh
 - 2021 **External Examiner**, *Ph.D. of Nina Poerner*, Advised by Hinrich Schuetze, Ludwig-Maximilians-Universität
 - 2021 **External Examiner**, *Ph.D. of Marcel Hildebrandt*, Advised by Volker Tresp, Ludwig-Maximilians-Universität
 - 2020 **External Examiner**, *Ph.D. of Marta Garnelo Abellanas*, Advised by Murray Shanahan, Imperial College London
 - 2020 **External Examiner**, *Ph.D. of Paweł Budzianowski*, Advised by Richard Turner and Anna Korhonen, University of Cambridge
 - 2019 **External Examiner**, *Ph.D. of Ioannis Alexandros Assael*, Advised by Shimon Whiteson, University of Oxford
- [Other](#)
- 2024 Mentor at the Women in Machine Learning (WiML) Symposium, ICML in Vienna, Austria
 - 2019 Mentor at the Workshop for Women in Machine Learning (WiML), NeurIPS in Vancouver, Canada

- 2019 Panel Chair at the EurNLP 2019 Summit
- 2017 Mentor for in2scienceUK High School research interns Sam Branney and Kieran O'Donovan, University of Oxford

Invited Talks

Academic Events

- 2020 **A Shot at Bridging the Knowledge Gap in Reinforcement Learning**
Invited speaker at the NeurIPS 2020 Workshop on Knowledge Representation & Reasoning Meets Machine Learning (KR2ML).
- The NetHack Learning Environment**
Invited speaker at the ICML 2020 Workshop on Learning in Artificial Open Worlds (LAOW).
- 2019 **Learning with Explanations**, *Brussels*, Belgium
Invited speaker at the first workshop on Fact Extraction and Verification (FEVER).
- 2018 **End-to-End Differentiable Proving**, *Alan Turing Institute*, UK
Invited speaker at the Logic and Learning workshop.
- 2017 **Deep Prolog: End-to-End Differentiable Proving in Knowledge Bases**
Invited speaker at the 2nd Conference on Artificial Intelligence and Theorem Proving (AITP 2017).

Universities

- 2022 **Open-ended Learning**, *University College London*, UK
Invited talk at the Seminar in Emerging Topics in Integrated Machine Learning Systems.
- 2021 **The NetHack Learning Environment**, *Queen Mary University*, UK
Invited talk at the Queen Mary Game AI Seminar Series.
- Knowledge Intensive Reinforcement Learning**, *Stanford University*, US
Invited talk at the Stanford NLP Seminar Series.
- 2019 **Learning with Explanations**, *University of Edinburgh*, UK
Invited talk at the the Institute for Language, Cognition and Computation (ILCC) Seminar.
- 2018 **Learning with Explanations**, *University of Cambridge*, Cambridge, UK
Invited talk at the Language Technology Lab (LTT) Seminars.
- AI – The Good, the Bad & the Ugly**, *University of Oxford*, UK
Invited talk at the Saïd Business School's Oxford Disruptive Tech Week.
- Deep Learning with Explanations**, *TU Darmstadt*, Germany
Invited talk at the Adaptive Preparation of Information from Heterogeneous Sources (AIPHES) research training group.
- Deep Learning with Explanations**, *Imperial College London*, UK
Invited talk at the Structured and Probabilistic Intelligent Knowledge Engineering (SPIKE) group.
- 2017 **End-to-End Differentiable Proving**, *University of Oxford*, UK
Invited talk at the Future of Humanity Institute.
- 2016 **What Can Deep Learning Learn from Symbolic Inference?**, *Imperial College London*, UK
Invited talk at the Biologically Inspired Computer Vision Group.
- Strong Structural Priors for Neural Network Architectures**, *University of Cambridge*, UK
Invited talk at the Natural Language and Information Processing Seminar Series.
- Reasoning about Entailment with Neural Attention**, *University of Sheffield*, UK
Invited talk at the Natural Language Processing Group Seminar.
- 2015 **Reasoning about Entailment with Neural Attention**, *German Research Centre for Artificial Intelligence Berlin*, Germany
Invited talk.
- Injecting Logical Background Knowledge into Embeddings for Relation Extraction**, *University of Cambridge*, UK
Invited talk at the Natural Language and Information Processing Seminar Series.

- 2014 **Relation Extraction with Low-rank Logic**, *Humboldt-Universität zu Berlin*, Germany
Invited talk at the Knowledge Management for Bioinformatics research seminar.
- 2012 **Joint Extraction of Proteins and Bio-Molecular Events using Imperatively Defined Factor Graphs**, *University of Mannheim*, Germany
[Non-academic](#)
- 2021 **Advancing Deep Reinforcement Learning with NetHack**
Invited interview at the TWIML AI Podcast.
- 2020 **The NetHack Learning Environment**
Invited interview at the weights&biases Podcast.
Deep reinforcement learning, symbolic learning and the road to AGI
Invited interview at the Towards Data Science Podcast.
The NetHack Learning Environment
Invited talk at the FiveAI Seminar Series.
- 2019 **Learning with Explanations**, *London*, UK
Invited talk at the London Machine Learning Meetup.
- 2017 **GPU-accelerated Deep Neural Networks for End-to-End Differentiable Planning and Reasoning**, *Munich*, Germany
Invited speaker at the GPU Technology Conference Europe (GTC Europe 2017).
End-to-End Differentiable Proving, *Google Mountain View*, USA
Invited talk at Google Research.
End-to-End Differentiable Proving, *DeepMind*, UK
Invited talk at DeepMind.
End-to-End Differentiable Proving, *London*, UK
Invited talk at the South England Natural Language Processing Meetup.
End-to-End Differentiable Proving, *Allen Institute for AI*, USA
Interview at the NLP Highlights Podcast.
End-to-End Differentiable Proving, *London*, UK
Invited talk at the London Machine Learning Meetup.

Teaching

- 2024 **Lecturer, Module Lead**, University College London, UK
Open-Endedness and General Intelligence. Designed and taught new course.
- 2019 – 2022 **Lecturer, Course Organizer**, University College London, UK
Statistical Natural Language Processing. Co-designed and taught new course with focus on Deep Learning for Natural Language Processing.
Average student course rating (1 very good – 5 very bad) in 2019: 1.62 (lecturer), 1.98 (overall course); 2021: 1.56 (lecturer), 2.12 (overall course).
- 2019 **Lecturer**, *First Summer School on Deep Learning in NLP at RANLP*, Varna, Bulgaria
Deep Learning for Natural Language Processing.
- 2017 – 2018 **Stipendiary Lecturer**, *Computer Science*, Hertford College, University of Oxford, UK
College Tutor in Functional Programming.
Lecturer, *Second International Summer School on Data Science (SSDS 2017)*, Split, Croatia
Deep Learning for Natural Language Processing.
- 2015 **Tutor**, *Association for Computational Linguistics (ACL)*, Beijing, China
Matrix and Tensor Factorization for Natural Language Processing.
- 2014 – 2015 **Guest Lecturer**, *General Assembly Data Science Course*, UK
A Primer on Deep Learning for Natural Language Processing.
- 2014 & 2016 **Guest Lecturer**, *University College London*, UK
Statistical Natural Language Processing.

- 2013 – 2016 **Teaching Assistant**, *University College London, UK*
Object-Oriented Programming.
- 2012 **Teaching Assistant**, *Humboldt-Universität zu Berlin, Germany*
Seminar Applied Text Mining.
- 2009 **Tutor**, *Humboldt-Universität zu Berlin, Germany*

Supervision

- 2023 – present **Supervisor**, *University College London, UK*
Davide Paglieri, Ph.D. Student
- 2021 – present **Supervisor**, *University College London, UK*
Laura Ruis, Ph.D. Student, CDT in Foundational AI
- 2021 – present **Supervisor**, *University College London, UK*
Akhir Khan, Ph.D. Student, CDT in Foundational AI
- 2021 – present **Co-supervisor**, *University College London, UK*
Yingchen Xu, Ph.D. Student
- 2020 – 2025 **Supervisor**, *University College London, UK*
Robert Kirk, Ph.D. Student, CDT in Foundational AI
- 2020 – 2024 **Supervisor**, *University College London, UK*
Zhengyao Jiang, Ph.D. Student
- 2020 – 2024 **Supervisor**, *University College London, UK*
Mikayel Samvelyan, Ph.D. Student
- 2019 – 2023 **Supervisor**, *University College London, UK*
Minqi Jiang, Ph.D. Student

Publications

See <https://rockt.github.io/publications.html>.

References

Available upon request.