





## Ruchira Dhar

**Date of birth:** 19/12/1997


**Nationality:** Indian

### CONTACT

 Jacob Erlandsens Gade 7,  
2100 Copenhagen, Denmark  
(Home)

 [rudh@di.ku.dk](mailto:rudh@di.ku.dk)

 (+45) 91931023

 (+91) 8420200818 (Residence)

 <https://ruchiradhar.github.io/>

 <https://x.com/eclecticruchira>

 <https://www.linkedin.com/in/ruchira-dhar-105427122/>

### ABOUT ME

Doctoral Researcher in NLP, AI and Cognition.

### WORK EXPERIENCE

**04/09/2023 – CURRENT** Copenhagen, Denmark

**Doctoral Researcher (CS/NLP/AI)** University of Copenhagen

1. Conducting advanced research on Neural Networks and Large Language Models (LLMs) to elucidate cognitive capabilities like reasoning, planning etc.
2. Additionally, I am interested in investigating neural alignment in natural & artificial systems via techniques in NeuroAI and computational neuroscience.
3. My research also involves interdisciplinary formal scientific analyses to determine the core properties of AI systems.

**09/02/2022 – 30/06/2023** Helsinki, Finland

**Analytical Linguist (AI Team)** Flowrite Oy

1. Working with SOTA LLMs including analytical prompting methods, in-context learning, and fine-tuning.
2. Research-based evaluation of NLG outputs using insights from psycholinguistics, automated metrics, and human evaluation.
3. Working with different Deep Learning and Machine Learning Algorithms for the preprocessing and postprocessing of NLG Outputs

**10/05/2021 – 05/02/2022** Pune, India

**Speech Expert (NLG Team)** Cerence Inc

1. Performed development of speech and text-based NLG pipelines for over 21 languages
2. Developed expertise in heuristics NLG methodologies and mastered working with over 10 internal tools in a short span.
3. Established work processes for cross-linguistic work with native speakers across the globe.

**04/01/2021 – 06/05/2021** Hyderabad, India

**Associate Engineer (NLP Analyst)** Kore AI

1. Ideation, development, and deployment of chatbots for US-based clients of different industries.
2. Gained skills in dialogue development, conversational analysis, ontology creation, and applying the latest technology to practical business requirements.
3. Researched and implemented parts of the NLG pipeline like intent recognition, ontology development, and pos-tagging using libraries like NLTK and Spacy.

**19/09/2020 – 11/12/2020** Delhi, India

**Junior Research Fellow (Linguistics)** Indian Institute of Technology Delhi

1. Worked with peer researchers in developing better insights into annotation techniques
2. Attended classes and assisted professors in the areas of computational linguistics & psycholinguistics

## EDUCATION AND TRAINING

**04/09/2023 – CURRENT** Copenhagen, Denmark

**PhD in Computer Science (Ongoing)** University of Copenhagen

Website <https://coastalcph.github.io/>

**01/08/2018 – 29/06/2020** Hyderabad, India

**MA in Linguistics** The English and Foreign Languages University

Address Tarnaka, 500007, Hyderabad, India | Website <https://www.efluniversity.ac.in/> | Field of study Arts and humanities | Final grade Outstanding | Thesis Thesis: "Navigating Truth Value Gaps: A Function Alteration Approach to The Analysis of Nominal Modification". Area- Mathematical Linguistics and Semantics. Supervisor- Dr Utpal Lahiri (Assoc. Professor, EFLU & PhD, MIT).

**01/07/2015 – 28/06/2018** Kolkata, India

**BA in English Language & Literature (with Honours)** University of Calcutta

Website <https://www.caluniv.ac.in/>

## CONFERENCES AND SEMINARS

**21/07/2024 – 27/07/2024** Vienna, Austria

**LLM & Cognition Workshop, ICML (International Conference on Machine Learning) 2024**

My work titled "From Words to Worlds: Compositionality For Cognitive Architectures" was accepted to ICML (International Conference on Machine Learning) Workshop on LLM & Cognition. It is undergoing final camera-ready preparations.

Link <https://llm-cognition.github.io/>

**16/05/2024 – 17/05/2024** Gottingen, Germany

**Agency and Intentions in AI (AIAI) Workshop**

My abstract on ongoing research in Compositionality in LLMs was accepted via peer review and I was invited for a talk at the workshop.

Link <https://ail-workshop.github.io/aiai-conference/index.html>

**29/10/2019 – 31/10/2019** INALCO, Paris, France

**South Asian Languages Analysis Roundtable (SALA)**

Presented a paper at the conference titled "The Bangla Sprachraum: Dialect Continuum from West Bengal to Assam via Bangladesh"

Links <https://sala-35.sciencesconf.org/> | [https://drive.google.com/file/d/1Nwx0BQCMdrP8Y5vyAgMqBObuUgYx5uTv/view?usp=share\\_link](https://drive.google.com/file/d/1Nwx0BQCMdrP8Y5vyAgMqBObuUgYx5uTv/view?usp=share_link)

## HONOURS AND AWARDS

**08/01/2020** University Grants Commission, Government of India

**Junior Research Fellowship in Linguistics**

Received 99 percentile score in national-level examination in Linguistics for prestigious research grant. Qualification in the exam also makes one eligible for posts of Assistant Professor in all government-recognized institutes across India.

Link [https://drive.google.com/drive/folders/1TOospBxSe4rrX6p61Pu1fnrT7BvmHQNT?usp=share\\_link](https://drive.google.com/drive/folders/1TOospBxSe4rrX6p61Pu1fnrT7BvmHQNT?usp=share_link)

## VOLUNTEERING

**01/04/2017 – 01/12/2017** Leiden University, Netherlands (Remote)

**Online Forum Volunteer (Linguistics Course on Coursera)**

Mentoring learners and regulating them on the MOOC 'Miracles of Human Language' by Leiden University on Coursera.

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Bengali

## Other language(s):

### English

**Listening** C2

**Reading** C2

**Writing** C2

**Spoken production** C2

**Spoken interaction** C2

---

### Hindi

**Listening** C1

**Reading** B2

**Writing** B2

**Spoken production** C2

**Spoken interaction** C2

---

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

### PROGRAMMING

Python | R | SQL | HTML

### NLP

Pandas | Spacy | Machine Learning Basics | Tensorflow | Scikit-Learn