

# Nouha DZIRI

## PERSONAL DATA

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HOMEPAGE: <https://webdocs.cs.ualberta.ca/~dziri> GITHUB: <https://github.com/nouhadziri>

## RESEARCH INTERESTS

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Conversational AI, Dialogue Evaluation, Trustworthy NLP, Natural Language Generation, Natural Language Understanding.

## EDUCATION

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<i>Fall. 2022 (Expected)</i> SEP. 2018	<b>Ph.D. Computing Science</b> , University of Alberta, Edmonton, Canada Tentative Thesis title: “Towards Building Faithful Dialogue Systems” Supervisor: Prof. Osmar Zaiane GPA: 4.0/4.0
JUN. 2018 SEP. 2016	<b>M.Sc. Computing Science</b> , University of Alberta, Edmonton, Canada Thesis title: “Response Generation for an Open-ended Conversational Agent” Supervisor: Prof. Osmar Zaiane GPA: 4.0/4.0

## RESEARCH & WORK EXPERIENCE

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JAN. 2022 MAY. 2022	Student Researcher <b>Google Research NYC</b> Advisors: <b>Tal Linzen, David Reitter, Hannah Rashkin</b> Activities: Work on evaluating groundedness/attribution of machine-generated responses.
MAY. 2021 APRIL. 2022	Visiting Researcher <b>Mila/McGill</b> Advisor: <b>Siva Reddy</b> Activities: Perform a large-scale audit of hallucinations in dialogue benchmarks and introduce a high-quality faithful dialogue benchmark.
JUN. 2020 SEP. 2020	Research Intern <b>Google Research NYC</b> Advisors: <b>Tal Linzen, Hannah Rashkin, David Reitter</b> Activities: Introduce the BEGIN benchmark which evaluates groundedness in dialogue systems.
OCT. 2019 MAY. 2019	Research Intern <b>Microsoft Research MTL</b> Advisors: <b>Alessandro Sordoni, Hannes Schulz, Goeff Gordon, Shikhar Sharma</b> Activities: Introduce DEMI which transforms a hard mutual information estimation problem into smaller subproblems which can potentially capture more of the total information.
MAY. 2019 AUG. 2019	Research Intern <b>Google Research NYC</b> Advisors: <b>Diyi Yang, Tom Kwiatkowski, Eva Schlinger</b> Activities: Perform an analysis on how properties of different requests interact with audience characteristics to affect the outcome of persuasion.

## PUBLICATIONS

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- [1] **Nouha Dziri**, Ehsan Kamaloo, Sivan Milton, Osmar Zaiane, Mo Yu, Edoardo Maria Ponti, Siva Reddy. **FaithDial: A Faithful Benchmark for Information-Seeking Dialogue**. TACL 2022.
- [2] **Nouha Dziri**, Sivan Milton, Mo Yu, Siva Reddy. **On the Origin of Hallucination in Conversational Models: Is it the Datasets or the Models?** NAACL 2022.
- [3] **Nouha Dziri**, Hannah Rashkin, Tal Linzen, and David Reitter. **Evaluating Groundedness in Dialogue Systems: The BEGIN Benchmark**. TACL 2022.
- [4] **Nouha Dziri**, Andrea Madotto, Osmar Zaiane, and Avishek Joey Bose. **Neural Path Hunter: Reducing Hallucination in Dialogue Systems via Path Grounding**. EMNLP 2021.
- [5] Alessandro Sordoni\*, **Nouha Dziri\***, Hannes Schulz\*, Goeff Gordon and Remi Tachet. **Decomposed Mutual Information Estimation for Contrastive Representation Learning**. ICML 2021.  
(\* equal contribution)
- [6] **Nouha Dziri**, Ehsan Kamaloo, Kory Mathewson, and Osmar Zaiane. **Evaluating Coherence in Dialogue Systems using Entailment**. NAACL 2019.
- [7] **Nouha Dziri**, Ehsan Kamaloo, Kory Mathewson, and Osmar Zaiane. **Augmenting Neural Response Generation with Context-Aware Topical Attention**. ACL 2019 workshop NLP4ConvAI.
- [8] Chenyang Huang, Osmar Zaiane, Amine Trabelsi and **Nouha Dziri**. **Automatic Dialogue Generation with Expressed Emotions**. NAACL 2018.
- [9] **Nouha Dziri** and Osmar Zaiane. **Response Generation for An Open-Ended Conversational Agent**. NeurIPS WiML 2018.

## INVITED TALKS

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- JUNE. 2022 **Stanford NLP seminar**. “Towards Building Faithful Dialogue Systems”
- MAY. 2022 **Google Research**. “FaithDial: A Faithful Benchmark for Information-Seeking Dialogue.”
- MAY. 2022 **Amazon Research**. “FaithDial: A Faithful Benchmark for Information-Seeking Dialogue.”
- SEP. 2021 **Mila, McGill University**. “Neural Path Hunter: Reducing Hallucination in Dialogue Systems via Path Grounding.”
- MAR. 2021 **Google Developer Student Club, University of Toronto**. “Inspiring Females to Pursue a Career in STEM: She Believed She Could ... So She Did.”
- AUG. 2020 **Google Research**. “Evaluating Groundedness in Dialogue Systems.”
- SEP. 2020 **IVADO: NLP Consortium for Dialogue systems**. “Evaluating Coherence in Dialogue Systems using Entailment.”
- DEC. 2019 **DeepMind**. “Evaluation in Open-Domain Dialogue Systems.”
- NOV. 2019 **Microsoft Research**. “Generating Dialogues by Mutual Information Maximization.”
- SEP. 2019 **Rasa Developer Summit** “Evaluating Coherence in Dialogue Systems using Entailment.”
- AUG. 2019 **Google Research**. “Is this Request Persuasive For You? Personalization in Persuasion.”
- SEP. 2018 **University of Alberta**. “Response Generation for An Open-Ended Conversational Agent.”

## TEACHING

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- MAR. 2019 CMPUT 699, Natural Language Processing; **Guest Lecture** on dialogue systems at University of Alberta.
- SEP. 2018 CMPUT 174, Introduction to Data Structure. **Teaching Assistant** at University of Alberta.

## SCHOLARSHIPS AND AWARDS

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- OCT. 2021 EMNLP 2021 **full travel grant** (~ \$3000).
- JUL. 2021 **Outstanding Reviewer** at ACL 2021 (**top 1%**)
- MAR. 2019 Invited to the **Amazon's Graduate Research Symposium** among top student researchers across north America, Seattle. (~ \$2500).
- NOV. 2018 NeurIPS WiML 2018 **travel grant** (~ \$2000)
- SEP. 2018 Alberta Doctoral Recruitment **Scholarship** (\$10,000)
- SEP. 2018 Tunisian Ministry of Higher Education **PhD Scholarship (top 1%)** (\$70,000)
- NOV. 2017 **Best Poster Award**, ACM Canadian Celebration of Women in Computing (\$400)
- APR. 2017 **Mitacs Globalink Graduate Fellowship** (\$15,000)
- APR. 2016 Tunisian Ministry of Higher Education **MSc Scholarship (top 1%)** (\$44,000)
- JAN. 2016 **DAAD** Scholarship for Research Internship, Leipzig, Germany (€10.000)
- DEC. 2015 **Mitacs Globalink** Research Scholarship, Canada (\$11.000)
- APR. 2015 **Erasmus Mundus** Exchange BSc Student Scholarship (**Declined**) (€30.000)

## MENTORSHIP

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- JUN. 2021/APR. 2022 Sivan Milton, BSc student at Department of Linguistics, McGill University.

## ACADEMIC SERVICE

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- **Reviewer:** ACL (2019-2022), EMNLP (2020, 2021), NAACL (2020, 2021), EACL (2020), AAAI (2020), IEEE Transactions on Audio, Speech and Language Processing (Journal) (2021).

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, C++
- **Deep learning libraries:** Pytorch, TensorFlow

## REFERENCES

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- **Osmar Zaiane:** Full professor at University of Alberta and Canada CIFAR AI Chair. ([zaiane@ualberta.ca](mailto:zaiane@ualberta.ca))
- **Siva Reddy:** Assistant Professor at Mila/McGill University and Facebook CIFAR AI Chair. ([siva.reddy@mila.quebec](mailto:siva.reddy@mila.quebec))
- **David Reitter:** Senior Research Scientist at Google Research NYC. ([reitter@google.com](mailto:reitter@google.com))
- **Alessandro Sordoni:** Principal Researcher at Microsoft Research Montreal. ([alsordon@microsoft.com](mailto:alsordon@microsoft.com))

## LINGUISTIC SKILLS

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- **Fluent:** English, French, Arabic
- **Beginner:** German, Italian

## EXTRA

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When I'm not doing NLP, I love playing tennis.