Ramakanth Pasunuru

· Research Graduate Student, UNC Chapel Hill ·

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Education

University of North Carolina, Chapel Hill — *August 2016 - Present*

PhD in Computer Science. Advisor: Prof. Mohit Bansal (MURGe-Lab)

Indian Institute of Technology, Kharagpur — *July 2010 - May 2015*

Bachelor of Technology in Electrical Engineering

Master of Technology in Instrumentation and Signal Processing

Publications

1. Ramakanth Pasunuru, Asli Celikyilmaz, Michel Galley, Chenyan Xiong, Yizhe Zhang, Mohit Bansal, and Jianfeng Gao. "Data Augmentation for Abstractive Query-Focused Multi-Document Summarization". *In Proceedings of **AAAI 2021***. [pdf] [code]

2. Ramakanth Pasunuru, Han Guo, and Mohit Bansal. "DORB: Dynamically Optimizing Multiple Rewards with Bandits". *In Proceedings of **EMNLP 2020***. [pdf]

3. Ramakanth Pasunuru and Mohit Bansal. "FENAS: Flexible and Expressive Neural Architecture Search". *In Findings of **EMNLP 2020***. [pdf]

4. Ori Shapira, Ramakanth Pasunuru, Hadar Ronen, Mohit Bansal, Yael Amsterdamer, and Ido Dagan. "Evaluating Interactive Summarization: an Expansion-Based Framework". **arXiv 2020**. [pdf]

5. Ori Ernst, Ori Shapira, Ramakanth Pasunuru, Michael Lepioshkin, Jacob Goldberger, Mohit Bansal, and Ido Dagan. "SuperPAL: Supervised Proposition ALignment for Multi-Document Summarization and Derivative Sub-Task". **arXiv 2020**. [pdf]

6. Han Guo, Ramakanth Pasunuru, and Mohit Bansal. "Multi-Source Domain Adaptation for Text Classification via DistanceNet-Bandits". *In Proceedings of **AAAI 2020***. [pdf]

7. Ramakanth Pasunuru and Mohit Bansal. "Continual and Multi-Task Architecture Search". *In Proceedings of **ACL 2019***. [pdf] [code]

8. Han Guo, Ramakanth Pasunuru, and Mohit Bansal. "AutoSeM: Automatic Task Selection and Mixing in Multi-Task Learning". *In Proceedings of **NAACL 2019***. [pdf] [code]

9. Ori Shapira, David Gabay, Yang Gao, Hadar Ronen, Ramakanth Pasunuru, Mohit Bansal, Yael Amsterdamer, and Ido Dagan. "Crowdsourcing Lightweight Pyramids for Manual Summary Evaluation". *In Proceedings of **NAACL 2019***. [pdf] [code]

10. Ramakanth Pasunuru and Mohit Bansal. "DSTC7-AVSD: Scene-Aware Video-Dialogue Systems with Dual Attention". *In DSTC7 Workshop of **AAAI 2019***. [pdf]

11. Ramakanth Pasunuru and Mohit Bansal. "Game-Based Video-Context Dialogue". *In Proceedings of **EMNLP 2018***. [pdf] [data/code]

12. Han Guo, Ramakanth Pasunuru, and Mohit Bansal. "Dynamic Multi-Level Multi-Task Learning for Sentence Simplification". *In Proceedings of **COLING 2018***. **Area Chair Favorites** [pdf] [code]

13. Ramakanth Pasunuru*, Han Guo*, and Mohit Bansal. "Soft Layer-Specific Multi-Task Summarization with Entailment and Question Generation". *In Proceedings of **ACL 2018***. [pdf]

14. Ramakanth Pasunuru and Mohit Bansal. "Multi-Reward Reinforced Summarization with Saliency and Entailment". *In Proceedings of **NAACL 2018***. [pdf]

15. Han Guo, Ramakanth Pasunuru, and Mohit Bansal. "Interactive-Length Multi-Task Video Captioning with Cooperative Feedback". *In **NIPS 2017** demo track*. [pdf]

16. Ramakanth Pasunuru and Mohit Bansal. "Reinforced Video Captioning with Entailment Rewards". *In Proceedings of **EMNLP 2017***. [pdf] [code]

17. Ramakanth Pasunuru, Han Guo, and Mohit Bansal. "Improving Abstractive Summarization via Entailment Generation". *In Proceedings of **EMNLP 2017** Workshop on New Frontiers in Summarization*. **Contributed Talk** [pdf]

18. Ramakanth Pasunuru and Mohit Bansal. "Multi-Task Video Captioning with Video and Entailment Generation". *In Proceedings of **ACL 2017***. **Outstanding Paper Award** [pdf]

19. Ramakanth Reddy, Priya Ranjan Muduli, and Anirban Mukherjee. "Compressed Sensing of Respiratory Signals Promoting Joint-Sparsity". *In **IEEE NCC 2016***. [pdf]

20. Aniruddha Maiti, Ramakanth Reddy, Anirban Mukherjee, "Structural Prediction of Dynamic Bayesian Networks with Partial Prior Information." ***IEEE Transactions on NanoBioScience 2015***. **Impact Factor: 2.771** [pdf]

Achievements and Awards

- **Microsoft Research PhD Fellowship** — *January 2019*
- **Facebook Research PhD Fellowship (Finalist)** — *January 2019*
- **DSTC7-AVSD Leaderboard Rank-3** — *November 2018*
- **Area Chair Favorites, COLING 2018** — *August 2018*
- **Outstanding Paper Award, ACL 2017** — *June 2017*
- **ACL Don and Betty Walker Scholarship** — *June 2017*
- **Innovation Award** *(from UHG)* for designing a prototype to solve double dipping fraud in healthcare — *May 2016*
- **Diamond Recognition** *(from Meena Jambulingam, Dir. IT Architecture, UHG)* — *Feb 2016*

  Innovation and development work done towards designing an Enterprise Search Prototype, capable of searching and filtering millions of records extremely quickly and also able to handle huge influx of data

- **Topaz Recognition** *(from Pradeep Gupta, Mgr Software Engineering, UHG)* ***Dec 2015***

  For design and development of several prototypes aimed at solving complex problems in the portfolio & healthcare industry

- **MITACS Global Link Ambassador** and Research Intern at Simon Fraser University, Burnaby, Canada ***2014***
- **MCM Scholarship** for 5 consecutive years for maintaining consistent excellent academic performance ***2010-2014***
- **Central Scholarship** for excellent performance in 12th board exams conducted by AP board of Intermediate ***2009***

Professional Service

- Serving as program committee member for various top conferences such as ACL, EMNLP, AAAI, ICLR, ICRA, etc.
- Involved in grant proposal writing for NSF and DARPA

Research Internships

Amazon, Seattle ***May 2020 - August 2020***
Research Intern, Supervisor: Markus Dreyer
- Worked on multi-document summarization with graph-based encodings.

Microsoft Research, Seattle ***June 2019 - August 2019***
Research Intern, Supervisors: Asli Celikyilmaz and Michel Galley
- Worked on query focused multi-document summarization.

Bloomberg LP, New York ***June 2018 - August 2018***
CTO Research Intern, Supervisor: David Rosenberg
- Worked on converting primitive objects in an image to a program sequence.

MITACS, School of Computer science, SFU, Canada ***May 2014 - July 2014***
Research Intern, Supervisor: Prof. Oliver Schulte
- Implemented and extended existing algorithms for handling databases with more than 10 million rows. Incorporated MULTs in decision trees changing WEKA source code in JAVA
- Acknowledged for outstanding Organization skills and time-management skills for accomplishing given tasks within deadlines

Reliance Communication Ltd ***May 2013 - July 2013***
Technical Intern
- Associated with the SD-RAM Up-gradation team for one month in upgrading 3 CISCO routers in Mumbai
- Reported a Comparative analysis for selecting efficient battery for telecommunications applications. Performed batteries tests at 3 BTS sites considering all technical and economic aspects

Work Experience

UnitedHealth Group ***July 2015 - June 2016***
Software Engineer
- Part of UHG team, whose objective is to identify inefficiencies in portfolio architecture and tackle complex problems by providing innovative solutions in the form of workable prototypes - Enterprise search Engine, Content Management System.
- Got promoted within 7 months for the innovative work done in the organization.

Teaching Experience

Computer Science, UNC, Chapel Hill *August, 2016 - December, 2016*

Teaching Assistant

- **Courses:** Foundations of Programming
- Conducted weekly recitations and guided students on assignments.

IIT, Kharagpur *July, 2014 - April, 2015*

Teaching Assistant

- **Courses:** Signals and Networks Lab, Embedded Systems Lab
- Assisted professors in affiliating students with the core concepts behind experiments; led weekly guidance on experiments & assignments