



# Paria Jamshid Lou

PhD Candidate

Macquarie University



9 April 1989



Google Scholar



Linkedin



Github



Webpage



paria.jamshid-lou@hdr.mq.edu.au



BD Building, 4 Research Park Drive,  
Dept. of Computing, Macquarie  
University, NSW 2109, Australia.

## Skills

Speech Processing Toolkits



Core NLP tasks



Deep Learning Models



Python



(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Languages

Turkish



English



Persian



(\*)[The skill scale is from 0 (Basics) to 6 (Native).]

## Summary

I am a second-year PhD candidate at Macquarie University. I currently work on deep neural models of disfluency detection, particularly generating fluent transcripts in ASR systems. I am passionate about the real-life applications of NLP and improving human-computer interaction in smart devices (e.g. processing disfluent speech in ASR systems or home assistant devices). I am driven by a love of learning and helping others to live a better life. My passion has led me to push the state-of-the-art in NLP and disfluency detection models in particular. My sense of responsibility and commitment, as well as my passion for learning have brought me diverse successes and I look forward to continuing in that vein in future path.

## Research Interests

NLP, Deep Learning, Disfluency Detection, ASR Systems

## Education

- since 2017 Ph.D. candidate in Computer Science  
Dept. of Computing, Macquarie University  
*Supervisors: Prof. Mark Johnson, A/Prof. Mark Dras, Dr. Sarvnaz Karimi*  
*Thesis Title: Disfluency Detection using Deep Neural Networks*
- 2016-2017 Master of Research in Computer Science  
Dept. of Computing, Macquarie University  
*Supervisors: Prof. Mark Johnson and A/Prof. Mark Dras*  
*Thesis Title: Disfluency Detection using a Noisy Channel Model and Deep Neural Language Model*
- 2011-2014 Master of Science in NLP  
Dept. of Language Sciences, Sharif University of Technology  
*Supervisors: A/Prof. Moharram Eslami and A/Prof. Mohammad Bahrani*  
*Thesis Title: Automatic Labeling of Prosodic Events in Persian Unmarked Speech and Text Using Acoustic and Syntactic Model*

## Publications

- 2019 Jamshid Lou, P., Wang, Y., and Johnson, M. (2019). Neural constituency parsing of speech transcripts. In To appear in NAACL, Minneapolis, US. [Link]
- 2018 Jamshid Lou, P., Anderson, P., and Johnson, M. (2018). Disfluency detection using auto-correlational neural networks. In *Proceedings of EMNLP*, pages 4610-4619, Brussels, Belgium. [Link]
- 2018 Mohamad Nezami, O., Jamshid Lou, P., and Karami, M. (2018). ShEMO: a large-scale validated database for Persian speech emotion detection. *Language Resources and Evaluation* 53(1):1-16. [Link]
- 2017 Jamshid Lou, P. and Johnson, M. (2017). Disfluency detection using a noisy channel model and a deep neural language model. In *Proceedings of ACL*, pages 547-553, Vancouver, Canada. [Link]
- 2013 Mohamad Nezami, O., Bahrapour, A., and Jamshid Lou, P. (2013). Dynamic diversity enhancement in particle swarm optimization (DDEPSO) algorithm for preventing from premature convergence. *Procedia Computer Science* 24: 54-65. [Link]



## Paria Jamshid Lou

PhD Candidate

Macquarie University



9 April 1989



Google Scholar



Linkedin



Github



Webpage



paria.jamshid-lou@hdr.mq.edu.au



BD Building, 4 Research Park Drive,  
Dept. of Computing, Macquarie  
University, NSW 2109, Australia.

## Skills

Speech Processing Toolkits



Core NLP tasks



Deep Learning Models



Python



(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Languages

Turkish



English



Persian



(\*)[The skill scale is from 0 (Basics) to 6 (Native).]

## Awards

- |      |   |
|------|---|
| 2019 | Macquarie University Postgraduate Research Fund (PGRF)  |
| 2018 | Data61 CSIRO Top-up Scholarship   |
| 2018 | Third place in Computing Industry Poster Competition at Macquarie University                      |
| 2017 | International Macquarie University Research Training Program (iMQRTP) Scholarship for PhD studies |
| 2017 | Awarded for Excellent Research Progress   |
| 2017 | Graduated with High Distinction in MRes program   |
| 2016 | International Research Training Pathway (iRTP) Scholarship for MRes studies                       |
| 2014 | Graduated as the 2nd top student in NLP from Sharif University of Technology                      |
| 2013 | Awarded as an outstanding student (2 years in row) at Sharif University of Technology             |

## Experience

- |           |   |
|-----------|---|
| 2019      | External Reviewer for ECML Conference                               |
| 2015-2016 | Research Assistant in Azad University, Tehran, Iran                 |
| 2014-2016 | Lecturer at Azad University, Tehran, Iran                           |
| 2013-2014 | Intern in Asr Gooyesh Pardaz, Tehran, Iran                          |
| 2012-2013 | Teaching Assistant at Sharif University of Technology, Tehran, Iran |

## Reference

### Main Supervisor

Prof. Mark Johnson  
Dept. of Computing, Macquarie University  
Sydney, Australia  
[Homepage](#)  
☎ +61 2 9850 9525  
📅 +61 2 9850 9551  
✉ mark.johnson@mq.edu.au

### Associate Supervisor

A/Prof. Mark Dras  
Dept. of Computing, Macquarie University  
Sydney, Australia  
[Homepage](#)  
✉ mark.johnson@mq.edu.au

### External Supervisor

Dr. Sarvnaz Karimi  
Senior Research Scientist at Data61  
Sydney, Australia  
[Homepage](#)  
✉ sarvnaz.karimi@data61.csiro.au