UNNI KRISHNAN

PhD Candidate, The University of Melbourne

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SHORT BIO

Currently a final PhD candidate in the School of Computing and Information Systems, The University of Melbourne focusing on Query auto completion (QAC) systems/ information retrieval (IR).

I am fascinated about understanding user interactions, building and evaluating efficient query processing strategies for large scale web search systems.

PUBLICATIONS

👥 Conference proceedings

- Krishnan, U, Moffat, A, Zobel, J, and Billerbeck, B. "Generation of synthetic query auto completion logs". In: *ECIR*. 2020.
- Krishnan, U. "Design and evaluation of query auto completion mechanisms". In: *SIGIR (Doctoral Colloquium).* 2018.
- Krishnan, U., Moffat, A., and Zobel, J. "A taxonomy of query auto completion modes". In: *ADCS*. 2017.
- Mathew, B., Krishnan, U., Chakraborty, T., Ganguly, N., and Datta, S. "Mining Twitter Conversations around E-Commerce Promotional Events". In: *CSCW*. 2016.

👥 Journal articles

- Krishnan, U., Billerbeck, B., Moffat, A., and Zobel, J. "Abstraction of query auto completion logs for anonymity-preserving analysis". In: *Information Retrieval. J. (IRJ)* 22.5 (2019), pp. 499–524.

SCHOLASTIC ACHIEVEMENTS

Awards

- Best industrial impact paper award at ECIR 2020.
- Best paper award at ADCS 2017.

Scholarships and travel grants

- SIGIR 2018 travel grant.
- Google travel grant to attend SIGIR 2018.
- ADCS 2017 travel grant.
- Melbourne Research Scholarship (MRS) and Microsoft SocialNUI top-up scholarship for the duration of my Ph.D.

Other achievements

- Flipkart best course project award, Complex Networks, spring 2015, IIT Kharagpur.
- One of the top 99.3 percentile of candidates among 155190 in GATE 2014 (national level entrance examination for post-graduate admissions in India)
- Best paper presentation in Tathva '11, national level technical symposium held at National Institute Of Technology (NIT), Calicut, autumn 2011.

SOCIAL PRESENCE

- in linkedin.com/in/unnikrishnanta
- ⓢ stackoverflow.com/users/937153
- 🔗 unnikrishnanta.github.io
- ⓖ github.com/unnikrishnanta
- 🐦 twitter.com/unnikrishnanta
- ⓢ 500px.com/unnikrishnanta

EXPERIENCE

Junior Research Fellow

Indian Institute of Technology Kharagpur

📅 July 2016 – November 2016

Conducted pilot study for IMPRINT: Pan-IIT + IISc joint initiative to address the major science and engineering challenges in India.

Associate Software Engineer

Accenture India Pvt. Ltd.

📅 November 2012 – September 2013

Worked for BestBuy application capability management focusing on their supply chain management system.

BACKGROUND

Relevant courses taken

- Compact Data Structures
- Web Search and Text Analysis
- Computational Complexity
- Social Computing   Complex Networks

Programming languages

- Python   C++   C

Tools and packages

- Pandas   scikit-learn   NLTK
- Succinct Data Structure Library (SDSL)
- Google Benchmark   Boost   Latex

EDUCATION

PhD in Computing and Information Systems
The University of Melbourne

📅 February 2017 – Present   📍 Melbourne, Australia

Research area : Information retrieval/ Query autocompletion systems
Thesis title   : Design & evaluation of query auto completion systems.
Supervisors   : Prof. Alistair Moffat and Prof. Justin Zobel.

M.Tech. in Information Technology
Indian Institute of Technology (IIT) Kharagpur

📅 July 2014 – April 2016   📍 Kharagpur, India

Research area : Complex networks/ Social networks
Thesis title   : Conversation dynamics in E-commerce space
Supervisor   : Prof. Niloy Ganguly

B.Tech. in Computer Science and Engineering
Federal Institute of Science and Technology (FISAT)

📅 July 2008 – April 2012   📍 Kochi, India

TEACHING EXPERIENCE

Tutor and Demonstrator
Engineering Computation

📅 2018 Semester 1   📍 The University of Melbourne

Introduction to programming with C covering fundamental concepts at an undergraduate level.

Tutor and Demonstrator
Foundations of Algorithm

📅 2017 Semester 2   📍 The University of Melbourne

Course focusing on introduction to C, basic data structures and algorithmic thinking.

Co-mentor
Complex Networks

📅 2016 Spring   📍 IIT Kharagpur

Project: A study on the dynamics of image memes.
(`http://www.majumderb.com/Meme_final.pdf`)

HOBBIES

Photography   Swimming   Cricket   Badminton   Tennis   Table Tennis

DESIGN SKILLS

Photoshop   Lightroom

LANGUAGES

English   ●●●●○

Hindi   ●●●○○

Malayalam   ●●●●●

REFERENCES

Prof. Alistair Moffat
📍 The University of Melbourne
✉ ammoffat@unimelb.edu.au
people.eng.unimelb.edu.au/ammoffat/

Prof. Justin Zobel
📍 The University of Melbourne
✉ jzobel@unimelb.edu.au
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