

Niket Tandon

EDUCATION

- 2012 – 2016 **Ph.D., Computer Science**
Max Planck Institute, Germany
Advisor: Prof. Dr. Gerhard Weikum
Thesis: Commonsense Knowledge Acquisition and Applications
Summa cum laude
- 2010 – 2012 **M.Sc., Computer Science**
Max Planck Institute & Saarland Univ., Germany
GPA 1.2/1.0, Honors Deg.
IMPRS Scholarship
- 2003 – 2007 **B.Tech, Computer Science**
VIT Vellore, India
GPA 9.2/10, Rank: 3/139
Undergrad Scholarship

EMPLOYMENT

- SEP 2016- **Allen Institute for AI**
Role: Research Scientist
- OCT-DEC 2015 **Microsoft Research, Seattle**
Role: Research Intern
Topic: Knowledge extraction
- 2013 - *2016 **PQRS Research**
Role: Founder
Topic: Remote internships
Mentored award-winning theses
- AUG-OCT 2011 **Microsoft Research, Seattle**
Role: Research Intern
Topic: Spelling Correction using Language Models with linear and generalized interpolation
Prototype shipped to Bing
- JUN- DEC 2009 **LTRC Lab, IIIT Hyderabad**
Role: Research Engineer
Topic: Cross Lingual IR: Language identification and constructing bilingual dictionaries using Wikipedia
Catalyzed a stagnant project
- 2007 – 2009 **IBM Software Lab, Gurgaon**
Role: Software Engineer
Topic: Agile based complete SDLC for Clearcase Source Code Management
Best internal (PBC) rating: 1.0
- JAN-JUN 2007 **Yahoo R&D, Bangalore**
Role: Undergrad Intern
Topic: Wrapper Induction for Information Extraction
Best undergrad thesis score

✉ Max Planck Institute for Informatics
66123 – Saarbruecken, Germany

☎ +49 176 3533 2047

✉ ntandon@mpi-inf.mpg.de

🌐 bit.ly/ntandon

(*) Born 05.05.1984 in Bareilly, India

ACHIEVEMENTS

- GRAD STUDIES IMPRS scholarship awarded to less than 2% applicants
- INDUSTRY Top achiever rating at IBM
- UNDERGRAD Merit scholarship for every year during undergrad
- ENTRANCE EXAMS Top 0.2% at State Level'03, Top 1% at National Level

SELECTED PUBLICATIONS

- Commonsense Knowledge in Machine Intelligence: [N Tandon](#), AS Varde, G de Melo: ACM SIGMOD Record (2018), 49-52
- VISIR: Visual and Semantic Image Label Refinement: SN Chowdhury, [N Tandon](#), H Ferhatosmanoglu, G Weikum: Proceedings of the Eleventh ACM International Conference on WSDM 2018
- Domain-Targeted, High Precision Knowledge Extraction: BD Mishra, [N Tandon](#), P Clark: Transactions of the Association for Computational Linguistics (2017), 233-246
- Movie description: A Rohrbach, A Torabi, M Rohrbach, [N Tandon](#), C Pal, H Larochelle, et al: International Journal of Computer Vision 123 (2017), 94-120
- Distilling task knowledge from how-to communities: CX Chu, [N Tandon](#), G Weikum: Proceedings of the 26th International Conference on World Wide Web, 805-814
- WebChild 2.0: fine-grained commonsense knowledge distillation: [N Tandon](#), G de Melo, G Weikum: Proceedings of ACL 2017, System Demonstrations, 115-120
- Domain-targeted, high precision knowledge extraction: B Dalvi, [N Tandon](#), P Clark: TACL 2017
- Webbrain: Joint neural learning of large-scale commonsense knowledge: J Chen, [N Tandon](#), CD Hari-man, G de Melo: International Semantic Web Conference 2016
- Learning language-visual embedding for movie understanding with natural-language: A Torabi, [N Tandon](#), L Sigal: arXiv preprint arXiv: 1609.08124, 2016
- Air quality assessment from social media and structured data: Pollutants and health impacts in urban planning: X Du, O Emebo, A Varde, [N Tandon](#), SN Chowdhury, G Weikum: Data Engineering Workshops (ICDEW), 2016

11. Seeing is believing: the quest for multimodal knowledge by Gerard de Melo and Niket Tandon, with Martin Vesely as coordinator: G de Melo, [N Tandon](#): ACM SIGWEB Newsletter 2016
12. Commonsense in Parts: Mining Part-Whole Relations from the Web and Image Tags.: [N Tandon](#), C Hariman, J Urbani, A Rohrbach, M Rohrbach, G Weikum: AAAI 2016
13. Know2Look: Commonsense Knowledge for Visual Search: SN Chowdhury, [N Tandon](#), G Weikum: Proceedings of the 5th Workshop on Automated Knowledge Base Construction, 57-62
14. Neural word representations from large-scale commonsense knowledge: J Chen, [N Tandon](#), G de Melo: Web Intelligence and Intelligent Agent Technology (WI-IAT), 2015
15. Knowlywood: Mining activity knowledge from hollywood narratives: [N Tandon](#), G de Melo, A De, G Weikum: Proceedings of the 24th ACM International on CIKM
16. Lights, camera, action: Knowledge extraction from movie scripts: [N Tandon](#), G Weikum, G Melo, A De: Proceedings of the 24th International Conference on World Wide Web, 127-128
17. Multimedia Data for the Visually Impaired.: [N Tandon](#), S Sharma, T Makkad: AAAI, 4210-4211
18. A proposal of the marriage of encyclopedic and commonsense knowledge: D Rajagopal, [N Tandon](#): CMU LTI-SRS symposium.(cited on page 8)
19. Perceptually grounded selectional preferences: E Shutova, [N Tandon](#), G De Melo: Proceedings of the 53rd Annual Meeting of the Association for Computational
20. A dataset for movie description: A Rohrbach, M Rohrbach, [N Tandon](#), B Schiele: Proceedings of the IEEE conference on computer vision and pattern
21. Acquiring Comparative Commonsense Knowledge from the Web.: [N Tandon](#), G De Melo, G Weikum: AAAI, 166-172
22. Webchild: Harvesting and organizing commonsense knowledge from the web: [N Tandon](#), G de Melo, F Suchanek, G Weikum
23. Proceedings of the 7th ACM international conference on Web search and data: Citation context sentiment analysis for structured summarization of research papers: [N Tandon](#), A Jain
24. 35th German Conference on Artificial Intelligence, 24-27: Markov chains for robust graph-based commonsense information extraction: [N Tandon](#), D Rajagopal, G Melo
25. Proceedings of COLING 2012: Demonstration Papers, 439-446: Deriving a Web-Scale Common Sense Fact Database.: [N Tandon](#), G De Melo, G Weikum
26. AAAI: Deriving a web-scale common sense fact knowledge base: [N Tandon](#), G Weikum, G de Melo, M Theobald
27. Masters thesis, Universitt des Saarlandes Saarbrcken.(cited on page 25): A weighted tag similarity measure based on a collaborative weight model: G Srinivas, [N Tandon](#), V Varma
28. Proceedings of the 2nd international workshop on Search and mining user: Information extraction from web-scale n-gram data: [N Tandon](#), G De Melo
29. Web N-gram Workshop 7: An iterative approach to extract dictionaries from wikipedia for under-resourced languages: R Bharadwaj, [N Tandon](#), V Varma
30. Simulation of coordinating sniffer robots for building odor maps: [N Tandon](#), A Karthik, SS Rana, PV Krihsna
31. Computational Intelligence, Communication Systems and Networks, 2009. CICSYN: Addressing challenges in automatic Language Identification of Romanized Text: K Pavan, [N Tandon](#), V Varma

TEACHING AND SEMINARS

GRAD THESIS	Supervised two Masters thesis - Saarland Univ., 2014-15
UNDERGRAD	Supervised nearly 10 undergrad thesis with PQRS, 2013-14
TEACHING	TA for Grad course: IR & Data Mining - Saarland Univ., 2011
INVITED TALK	Commonsense Mining. NUS, Singapore - 2012
TUTORIALS	AI and the Web: organized 3 days seminar, India- 2011. CIKM tutorial on Commonsense Knowledge, Singapore- 2017

PROFESSIONAL ACTIVITIES

SENIOR PC MEMBER	WWW 2018
PC MEMBER	WWW 2017, AAAI 2018, NAACL 2018, ACL 2018, and others

REFERENCES

Available upon request.