

Ndapa Nakashole

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Computer Science & Engineering
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APPOINTMENTS

University of California, San Diego
Assistant Professor, Jan 2017 –

Carnegie Mellon University, USA
Postdoctoral Fellow, 2013 – 2016
Advisor: Tom M. Mitchell

Max Planck Institut für Informatik, Saarbrücken, Germany
Doctoral Researcher, 2009 – 2013
Advisor: Gerhard Weikum

Microsoft Research, Redmond, USA
Research Intern, Data Management 04/2011 – 07/2011

IBM Zurich Research, Switzerland
Research Intern, Business Optimization 03/2008 – 08/2008

University of Cape Town, South Africa
Research Assistant, Digital Libraries Group 2007 – 2008

EDUCATION

**Max Planck Institute for Informatics
and Saarland University, Germany**
Ph.D., Summa cum laude, in Computer Science, 2012
Otto Hahn Medal (Max Planck Society dissertation award)
Advisor: Gerhard Weikum

University of Cape Town, South Africa
M.Sc., with Distinction, in Computer Science, 2009
Masters thesis advisor: Hussein Suleman
B.Sc.(Hons), awarded First Class, in Computer Science, 2006
Undergraduate thesis advisor: Hussein Suleman
B.Sc., Computer Science, 2005

RESEARCH INTERESTS

Natural Language Processing, Machine Learning

RECENT INVITED TALKS

- 7/2017 Women in NLP Workshop, collocated with ACL, Vancouver, Canada
- 6/2017 U.S. National Academy of Sciences Kavli Frontiers of Science
(Korean-American Symposium), Irvine, CA
- 5/2017 University of California, Irvine
- 4/2016 Rutgers University
- 4/2016 University of Texas, Austin
- 3/2016 Johns Hopkins University
- 3/2016 New York University
- 3/2016 University of California, Davis
- 2/2016 University of California, San Diego
- 2/2016 Rice University
- 1/2016 University of Michigan, Ann Arbor
- 1/2016 Yale University
- 11/2015 NLP Lunch, Carnegie Mellon University
- 02/2015 Special Operations Command (SOCOM) visit, Carnegie Mellon University
- 12/2013 Machine Learning Lunch, Carnegie Mellon University
- 09/2013 Google Inc., Mountain View, USA
- 03/2013 Computational Linguistics Lunch Seminar, Saarland University

PROFESSIONAL SERVICE**Program Committee Member**

- ◇ World Wide Web Conference (WWW): 2017
- ◇ Annual Conference on Neural Information Processing Systems (NIPS): 2016, 2017
- ◇ AAAI Conference on Artificial Intelligence (AAAI): 2016, 2017
- ◇ International Joint Conference on Artificial Intelligence (IJCAI): 2016
- ◇ North American Chapter of the Association for Computational Linguistics (NAACL): 2016
- ◇ Workshop on Knowledge Extraction(KET at AAAI): 2016
- ◇ Annual meeting of the Association for Computational Linguistics (ACL): 2015,17
- ◇ International Workshop on the Web and Databases (WebDB at SIGMOD): 2015
- ◇ Workshop on Automated Knowledge Base Construction (AKBC at NIPS): 2014
- ◇ Workshop on Automated Knowledge Base Construction (AKBC at NAACL): 2016
- ◇ International Conference on Information and Knowledge Management (CIKM): 2014, 2015
- ◇ International Conference on Computational Linguistics (COLING): 2014 ,2017
- ◇ Empirical Methods in Natural Language Processing (EMNLP): 2013, 2017

Journal Reviewer

- ◇ Transactions of the Association for Computational Linguistics (TACL): 2015
- ◇ Elsevier Journal of Web Semantics: 2013, 2015
- ◇ Elsevier Journal of Information Systems (Information Systems): 2015

UNIVERSITY AND MSc. SERVICE**Committees**

- ◇ PhD Admissions Committee, CSE, University of California, San Diego 2017
- ◇ Msc thesis committee, Thomas Andy Keller, University of California, San Diego Spring 2017
- ◇ PhD thesis committee, Qian Yang, Tsinghua University Spring 2017

Msc.

- ◇ Judge, Undergraduate Women Hackathon UCSD Spring 2017
- ◇ Coordinator, CMU Machine Learning/Google Distinguished Lecture Series: 2014-2016

PUBLICATIONS

Journal Articles

1. Nakashole, N., G. Weikum, and F. Suchanek (2013). Discovering Semantic Relations from the Web and Organizing them with PATTY. *ACM SIGMOD Record* **42**(2), 29–34.
2. Nakashole, N., G. Weikum, and F. Suchanek (2012). Discovering and exploring relations on the web. *Proceedings of the VLDB Endowment* **5**(12), 1982–1985.
3. Weikum, G., J. Hoffart, N. Nakashole, M. Spaniol, F. M. Suchanek, and M. A. Yosef (2012). Big Data Methods for Computational Linguistics. *IEEE Data Eng. Bull.* **35**(3), 46–64.

Papers in Conference Proceedings

1. Kumar, A., B. Raj, and N. Nakashole (2017). Discovering sound concepts and acoustic relations in text. In: *IEEE International Conference on Acoustics, Speech and Signal Processing, (ICASSP)*, pp.631–635.
2. Nakashole, N. and R. Flauger (2017). Knowledge Distillation for Bilingual Dictionary Induction. In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.
3. Mitchell, T. M., W. W. Cohen, E. R. H. Jr., P. P. Talukdar, J. Betteridge, A. Carlson, B. D. Mishra, M. Gardner, B. Kisiel, J. Krishnamurthy, N. Lao, K. Mazaitis, T. Mohamed, N. Nakashole, E. A. Platanios, A. Ritter, M. Samadi, B. Settles, R. C. Wang, D. T. Wijaya, A. Gupta, X. Chen, A. Saparov, M. Greaves, and J. Welling (2015). Never-Ending Learning. In: *Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence, (AAAI)*, pp.2302–2310.
4. Nakashole, N. (2015). Composite Events: A Fact-based Representation. In: *Proceedings of the 2015 iConference*.
5. Nakashole, N. and T. M. Mitchell (2015). A Knowledge-Intensive Model for Prepositional Phrase Attachment. In: *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics, (ACL)*, pp.365–375.
6. Wijaya, D. T., N. Nakashole, and T. M. Mitchell (2015). Learning State Changing Verbs from Wikipedia Revision History. In: *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.
7. Nakashole, N. and T. M. Mitchell (2014). Language-Aware Truth Assessment of Fact Candidates. In: *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL)*, pp.1009–1019.
8. Wijaya, D. T., N. Nakashole, and T. M. Mitchell (2014). CTPs: Contextual Temporal Profiles for Time Scoping Facts using State Change Detection. In: *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.
9. Nakashole, N., T. Tylenda, and G. Weikum (2013). Fine-grained Semantic Typing of Emerging Entities. In: *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL)*, pp.1488–1497.
10. Nakashole, N., G. Weikum, and F. Suchanek (2012). PATTY: a taxonomy of relational patterns with semantic types. In: *Proceedings of the 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP)*. **Best Paper Award Runner Up**, pp.1135–1145.
11. Nakashole, N., M. Theobald, and G. Weikum (2011). Scalable Knowledge Harvesting with High Precision and High Recall. In: *Proceedings of the Fourth ACM International Conference on Web Search and Data Mining (WSDM)*, pp.227–236.
12. Nakashole, N. and H. Suleman (2009). A Hybrid Distributed Architecture for Indexing. In: *Research and Advanced Technology for Digital Libraries, 13th European Conference (ECDL)*, pp.250–260.
13. Nakashole, N. and H. Suleman (2008). A Scavenger Grid for Intranet Indexing. In: *Digital Libraries: Universal and Ubiquitous Access to Information, 11th International Conference on Asian Digital Libraries (ICADL)*, pp.398–399.

14. Nakashole, N., H. Suleman, and C. Pedzai (2007). Dynamic role allocation for small search engine clusters. In: *Proceedings of the 2007 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries (SAIC-SIT)*, pp.91–96.

Refereed Workshop Papers

1. Nakashole, N. and T. Mitchell (2014). Micro Reading with Priors: Towards Second Generation Machine Readers. In: *Proceedings of the Workshop on Automatic Knowledge Base Construction (AKBC at NIPS)*.
2. Wijaya, D., N. Nakashole, and T. Mitchell (2014). Mining and Organizing a Resource of State-changing Verbs. In: *Proceedings of the Workshop on Automatic Knowledge Base Construction (AKBC at NIPS)*.
3. Nakashole, N., M. Sozio, F. M. Suchanek, and M. Theobald (2012). Query-Time Reasoning in Uncertain RDF Knowledge Bases with Soft and Hard Rules. In: *Proceedings of the Second International Workshop on Searching and Integrating New Web Data Sources (VLDS at VLDB)*, pp.15–20.
4. Nakashole, N. and G. Weikum (2012). Real-time population of knowledge bases: opportunities and challenges. In: *Proceedings of the Joint Workshop on Automatic Knowledge Base Construction and Web-scale Knowledge Extraction (AKBC-WEKEX) at NAACL*. **Best Paper Award**.
5. Nakashole, N., M. Theobald, and G. Weikum (2010). Find your advisor: robust knowledge gathering from the web. In: *Proceedings of the 13th International Workshop on the Web and Databases (WebDB at SIGMOD)*.

HONORS AND AWARDS

2014	Otto Hahn Medal (awarded for PhD dissertation by the Max Planck Society)
2012	Best Paper Award Runner Up at the EMNLP 2012 Conference
2012	Best Paper Award at the AKBC-WEKEX 2012 Workshop
2003-2005	Faculty of Science Merit Entrance Scholarship
2002,2003,2005	Department of Computer Science Merit List (awarded to top 5% of class)
2002,2003,2005	Faculty of Science Dean's Merit List
2002, 2003	Class Medals for Computer Science Courses (awarded to top grade in the class)

STUDENT ADVISING & MENTORING

Dustin Wright(Msc)	University of California, San Diego	2017 –
Steven Zheng (Bsc)	University of California, San Diego	Winter 2017
Aditi Mavalankar (Msc)	University of California, San Diego	Winter 2017
Leon Cheung (Bsc)	University of California, San Diego	Winter, Spring 2017
Tue Vo (Bsc)	Carnegie Mellon University	Summer 2015

TEACHING

CSE291B00: Statistical NLP , University of California, San Diego	Spring 2017
Ubiquitous Smart Agents (Guest Instructor), Carnegie Mellon University	Fall 2015

REFERENCES

Available upon request