

# Pontus Stenetorp

University College London  
Gower Street  
London WC1E 6BT, UK  
☎ +44 (0)20 3549 5395  
🌐 [pontus.stenetorp.se](http://pontus.stenetorp.se)

## Education

- PhD**, *University of Tokyo*, Computer Science. **2010–2013**  
“On the Applicability and Representation of Lexical Prior Knowledge”
- MSc Eng**, *Royal Institute of Technology (KTH)*, Computer Science. **2005–2010**  
“Automated Extraction of Swedish Neologisms using a Temporally Annotated Corpus”

## Experience

- Research Associate**, *University College London*, London, United Kingdom. **2015–**  
Multi-step inference using deep memory-based models.
- Postdoctoral Research Fellow**, *University of Tokyo*, Tokyo, Japan. **2013–2015**  
Jointly learning latent categories, structures, and their representations.
- Special Project Research Associate**, *National Institute of Informatics*, Tokyo, Japan. **2013**  
Applying vector composition and representation learning to dependency parsing.
- Quality-Assurance Engineer**, *LucidEra Inc.*, San Mateo, California, USA. **2008**  
Performance testing and test automation.
- Teaching Assistant**, *Royal Institute of Technology (KTH)*, Stockholm, Sweden. **2006–2009**  
Preparing and holding weekly lectures for up to 15 students for several elementary and advanced classes.
- Software Developer**, *Norrorts Konferens HB*, Djursholm, Sweden. **2006–2007**  
Development of software for conference activities.

## Achievements

### Funding

- Fellowship**, *Japan Society for the Promotion of Science (JSPS)*, 8,688,000 JPY. **2013–2015**
- Grant**, *KAKENHI #13F03041*, PI, 2,300,000 JPY. **2013–2015**
- Scholarship**, *Monbukagakusho (MEXT)*, 1,740,000 JPY. **2012–2013**
- Stipend**, *University of Tokyo Overseas Visit Support*, 220,000 JPY. **2012**
- Scholarship**, *Japan Student Services Organization (JASSO)*, 780,000 JPY. **2011–2012**
- Stipend**, *Royal Swedish Academy of Sciences (KVA)*, 100,000 SEK. **2011**
- Stipend**, *Royal Swedish Academy of Sciences (KVA)*, 100,000 SEK. **2010**
- Stipend**, *Lars Hierta Memorial Foundation*, 35,000 SEK. **2010**
- Stipend**, *Ebba Danelius Foundation*, 120,000 SEK. **2009**
- Stipend**, *Adolf Lindgren Foundation*, 16,000 SEK. **2008**

### Awards and Nominations

- Award**, *Best presentation at the JSPS London Research Promotion Conference*. **2016**
- Award**, *Facebook AI Research (FAIR) Best Proposal Award*, 1,250 USD. **2016**

- Nomination**, *Gerd Eriksson Teaching Award, KTH.* 2007  
**Nomination**, *Gerd Eriksson Teaching Award, KTH.* 2006

## Services

### *Organising Committee*

- 2017: Conference on Empirical Methods in Natural Language Processing (EMNLP)  
 2016: *Program Chair*, JuliaCon 2016 (274 attendees)  
 2015: Biomedical Linked Annotation Hackathon (BLAH)  
 2013: BioNLP Shared Task (22 groups participating)  
 2011: BioNLP Shared Task (24 groups participating)

### *Program Committee*

- 2017: EACL, Ethics in NLP, Games4NLP, and JuliaCon  
 2016: AKBC, COLING, EMNLP, IJCAI, JuliaCon, and SCIDOCA  
 2015: EMNLP and JuliaCon  
 2013: BioNLP and IJCNLP  
 2012: BioNLP and SMBM

### *Other*

- 2015–: *Lead Organiser*, South England Natural Language Processing (SE NLP) Meetup  
 2016: *Organiser*, Google Summer of Code (GSoC) for the Julia programming language  
 2013: *Local Organiser*, The 5th International Symposium on Languages in Biology and Medicine

## Invited Talks and Participations

- Learning to Generate Training Data**, *University of Cambridge, Cambridge, UK.* 2017  
 Invited talk, paid travel.
- Weakly Supervised Machine Reading**, *CREST International Symposium on Big Data Application, Tokyo, Japan.* 2017  
 Invited talk, presented together with Isabelle Augenstein.
- Weakly Supervised Machine Reading**, *Nara Institute of Science and Technology, Ikoma, Japan.* 2017  
 Invited talk, presented together with Isabelle Augenstein.
- Learning to Generate Textual Data**, *National Institute of Advanced Industrial Science and Technology, Tokyo, Japan.* 2017  
 Invited talk.
- Learning to Generate Textual Data**, *Tohoku University, Sendai, Japan.* 2016  
 Invited talk, paid travel and accommodation.
- Learning to Generate Textual Data**, *National Institute of Informatics, Tokyo, Japan.* 2016  
 Invited talk.
- Machines that read the scientific literature**, *Japan Society for the Promotion of Science (JSPS) London Japan-UK Research Promotion Conference, Embassy of Japan, London, UK.* 2016  
 Invited talk

<b>Natural Language Processing with Julia</b> , <i>Manchester Julia Workshop</i> , University of Manchester, Manchester, UK. Plenary talk, paid travel and accommodation.	<b>2016</b>
<b>Natural Language Processing: History, motivations, and what the near future may hold for intelligent machines</b> , <i>Waseda University</i> , Tokyo, Japan. Invited talk.	<b>2016</b>
<b>Learning to Generate Textual Data</b> , <i>AI4Exam Workshop</i> , National Institute of Informatics, Tokyo, Japan. Invited talk, paid travel and accommodation.	<b>2016</b>
<b>Defining Words with Words</b> , <i>Kyoto University</i> , Kyoto, Japan. Invited talk.	<b>2016</b>
<b>Defining Words with Words</b> , <i>Osaka University</i> , Osaka, Japan. Invited talk.	<b>2016</b>
<b>Computers that Read: Uncovering the Structure of Language with Deep Learning</b> , <i>Artificial Intelligence Research (AIR) society</i> , Osaka University, Osaka, Japan. Invited talk, presented together with Jason Naradowsky.	<b>2016</b>
<b>Defining Words with Words</b> , <i>Tohoku University</i> , Sendai, Japan. Invited talk, paid travel and accommodation.	<b>2016</b>
<b>Defining Words with Words</b> , <i>University of Tokyo</i> , Tokyo, Japan. Invited talk.	<b>2016</b>
<b>Natural Language Processing</b> , <i>Google NLP PhD Summit</i> , Zürich, Switzerland. Invited participant, paid travel and accommodation.	<b>2015</b>
<b>Suitably naming a child with multiple nationalities using Julia</b> , <i>JuliaCon</i> , Massachusetts Institute of Technology, Cambridge, Massachusetts, USA. Invited talk.	<b>2015</b>
<b>Unified Annotation Tooling</b> , <i>National Science Foundation-Sponsored Workshop</i> , Sunny Isles Beach, Florida, USA. Invited participant, paid travel and accommodation.	<b>2015</b>
<b>Computers and Language</b> , <i>Yamanashi Prefectural Hikawa High School</i> , Yamanashi, Japan. Invited talk, paid travel.	<b>2014</b>
<b>A Brief JuliaCon Report and Natural Language Processing with Julia</b> , <i>Julia-Tokyo Meetup</i> , Tokyo, Japan. Invited talk.	<b>2014</b>
<b>Natural Language Processing with Julia</b> , <i>JuliaCon</i> , University of Chicago, Chicago, Illinois, USA. Invited talk.	<b>2014</b>
<b>A Year and a Few Months Later: Results and Musings on the State of NLP and BioNLP</b> , <i>Microsoft Research</i> , Seattle, Washington, USA. Invited talk.	<b>2012</b>
<b>Assisting Gene Mention Tagging by Utilising Largely Unsupervised Induced Semantic Class Taggers</b> , <i>Tech Talks 'n Mix</i> , Google, Tokyo, Japan. Invited poster.	<b>2010</b>

## Teaching

**Lecturer**, *University College London*, London, UK. **2015–**  
Research Methods (COMP3095) and Research Group Project (COMP3096). Organising weekly project-based classes.

**Guest lecturer**, *University College London*, London, UK. **2015–**  
Statistical Natural Language Processing (COMPM083/COMPGI19). Guest lecturer for the Deep Learning portions of the course.

**Teaching Assistant**, *Royal Institute of Technology (KTH)*, Stockholm, Sweden. **2005–2008**  
Algorithms, Data Structures and Complexity (DD1352), Introduction to Computer Science (DD1339), Programming Paradigms (DD1361), and Programming Techniques (DD1310). Lab assistance, homework grading, and organising flipped classroom lectures with up to 15 students

## Student supervision

**Co-supervisor**: *Tohoku University*, Shimaoka Sonse, *MSc*, 2017 (expected).

**Supervisor**: *University College London*, Iuliana-Elena Parasca, *MSc Eng*, 2017 (expected).

**Supervisor**: *University College London*, Aleksandar Rusinov, *MSc Eng*, 2017 (expected).

**Supervisor**: *University College London*, Mark Neumann, *MSc*, 2016, now at the Allen Institute for Artificial Intelligence.

**Supervisor**: *University College London*, Jonathan Godwin, *MSc*, 2016, now at Bloomsbury AI.

## Commissions of Trust

**Chairman**, *KTH Japan Alumni Chapter*, Tokyo, Japan. **2013–2015**

**Chairman of the Education Committee**, *Computer Science Chapter, Student Union at the Royal Institute of Technology*, Stockholm, Sweden. **2008**

**Member of the Board**, *Computer Science Chapter, Student Union at the Royal Institute of Technology*, Stockholm, Sweden. **2006–2007**

**Municipality Chairman**, *Piratpartiet (Pirate Party)*, Stockholm, Sweden. **2006**

## Certificates

**Test of English for International Communication (TOEIC)**, 990/990. **2013**

**Test of English as a Foreign Language (TOEFL)**, 120/120. **2009**

**Certificate of Advanced English (CAE)**, *Grade A, University of Cambridge*. **2004**

## Language skills

**Swedish**: Native

**English**: Fluent

**Japanese**: Intermediate

**German**: Elementary

## Open source software and contributions

**Creator**: *brat*, a widely adopted text annotation tool.

**Contributor:** *Julia*, a high-performance programming language for technical computing.  
A complete list of public software repositories can be found at: <https://github.com/ninjin>

## Publications

30. Sonse Shimaoka, Pontus Stenetorp, Kentaro Inui, and Sebastian Riedel. **Neural Architectures for Fine-grained Entity Type Classification** *In Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics, Valencia, Spain, April 2017.* (to appear)
29. Neumann Mark, Pontus Stenetorp, and Sebastian Riedel. **Learning to Reason with Adaptive Computation** *Interpretable Machine Learning for Complex Systems at the 2016 Conference on Neural Information Processing Systems (NIPS), Barcelona, Spain, December 2016.*
28. Guillaume Bouchard, Pontus Stenetorp, and Sebastian Riedel. **Learning to Generate Textual Data** *In Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing, Austin, Texas, November 2016.*
27. Iuliana-Elena Parasca, Andreas Lukas Rauter, Jack Roper, Aleksandar Rusinov, Guillaume Bouchard, Sebastian Riedel, and Pontus Stenetorp. **Defining Words with Words: Beyond the Distributional Hypothesis** *In Proceedings of the 1st Workshop on Evaluating Vector-Space Representations for NLP, Berlin, Germany, August 2016.*
26. Sonse Shimaoka, Pontus Stenetorp, Kentaro Inui, and Sebastian Riedel. **An Attentive Neural Architecture for Fine-grained Entity Type Classification** *In Proceedings of the 5th Workshop on Automated Knowledge Base Construction, San Diego, California, USA, June 2016. (citations<sup>†</sup>: 5)*
25. Jin-Dong Kim, Kevin Cohen, Nigel Collier, Zhiyong Lu, and Pontus Stenetorp. **Introduction to the Biomedical Linked Annotation Hackathon (BLAH) 2015 Symposium** *In BioMed Central Proceedings, August 2015.*
24. Kazuma Hashimoto, Pontus Stenetorp, Makoto Miwa, and Yoshimasa Tsuruoka. **Task-Oriented Learning of Word Embeddings for Semantic Relation Classification** *In Proceedings of the Nineteenth Conference on Computational Natural Language Learning, Beijing, China, July 2015. (citations<sup>†</sup>: 9)*
23. Sampo Pyysalo, Jorge Campos, Juan Miguel Cejuela, Filip Ginter, Kai Hakala, Chen Li, Pontus Stenetorp, and Lars Juhl Jensen. **Sharing annotations better: RESTful Open Annotation** *In Proceedings of ACL-IJCNLP 2015 System Demonstrations, Beijing, China, July 2015. (citations<sup>†</sup>: 7)*
22. Hubert Soyer, Goran Topić, Pontus Stenetorp, and Akiko Aizawa. **CroVeWA: Crosslingual Vector-Based Writing Assistance** *In Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics: Demonstrations, Denver, Colorado, USA, June 2015.*
21. Hubert Soyer, Pontus Stenetorp, and Akiko Aizawa. **Leveraging Monolingual Data for Crosslingual Compositional Word Representations** *In Proceedings of the 3rd International Conference on Learning Representations, San Diego, California, USA, May 2015. (citations<sup>†</sup>: 14)*
20. Kazuma Hashimoto, Pontus Stenetorp, Makoto Miwa, and Yoshimasa Tsuruoka. **Jointly Learning Word Representations and Composition Functions Using Predicate-Argument Structures** *In Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing, Doha, Qatar, October 2014. (citations<sup>†</sup>: 11)*
19. Pontus Stenetorp, Sampo Pyysalo, Sophia Ananiadou, and Jun'ichi Tsujii. **Generalising Semantic Category Disambiguation with Large Lexical Resources for Fun and Profit** *Journal of Biomedical Semantics, June 2014. (citations<sup>†</sup>: 4)*
18. Pontus Stenetorp. **Transition-based Dependency Parsing Using Recursive Neural Networks** *Deep Learning Workshop at the 2013 Conference on Neural Information Processing Systems (NIPS), Lake Tahoe, Nevada, USA, December 2013. (citations<sup>†</sup>: 11)*

17. Pontus Stenetorp, Wiktorija Golik, Thierry Hamon, Donald C. Comeau, Rezarta Islamaj Doğan, Haibin Liu, and W. John Wilbur. **BioNLP Shared Task 2013: Supporting Resources** *In Proceedings of the BioNLP Shared Task 2013 Workshop, Sofia, Bulgaria, August 2013. (citations<sup>†</sup>: 2)*
16. Pontus Stenetorp. **On the Applicability and Representation of Lexical Prior Knowledge** *Doctor of Philosophy (PhD) Thesis, University of Tokyo, Tokyo, Japan, March 2013.*
15. Pontus Stenetorp, Sampo Pyysalo, Goran Topić, Sophia Ananiadou, and Akiko Aizawa. **Normalisation with the brat rapid annotation tool** *In Proceedings of the 5th International Symposium on Semantic Mining in Biomedicine, Zürich, Switzerland, September 2012.*
14. Pontus Stenetorp, Hubert Soyer, Sampo Pyysalo, Sophia Ananiadou, and Takashi Chikayama. **Size (and Domain) Matters: Evaluating Semantic Word Space Representations for Biomedical Text** *In Proceedings of the 5th International Symposium on Semantic Mining in Biomedicine, Zürich, Switzerland, September 2012. (citations<sup>†</sup>: 8)*
13. Pontus Stenetorp, Sampo Pyysalo, Tomoko Ohta, Sophia Ananiadou, and Jun'ichi Tsujii. **Bridging the Gap Between Scope-based and Event-based Negation/Speculation Annotations: A Bridge Not Too Far** *In Proceedings of the Workshop on Extra-Propositional Aspects of Meaning in Computational Linguistics, Jeju, Republic of Korea, July 2012. (citations<sup>†</sup>: 2)*
12. Panot Chaimongkol, Pontus Stenetorp, and Aizawa Aizawa. **Utilising Bilingual Lexical Resources for Technical Term Extraction** *In Proceedings of The 26th Annual Conference of the Japanese Society for Artificial Intelligence, Yamaguchi, Japan, June 2012.*
11. Sampo Pyysalo, Pontus Stenetorp, Tomoko Ohta, Jin-Dong Kim, and Sophia Ananiadou. **New Resources and Perspectives for Biomedical Event Extraction** *In BioNLP: Proceedings of the 2012 Workshop on Biomedical Natural Language Processing, Montréal, Canada, June 2012.*
10. Pontus Stenetorp, Sampo Pyysalo, Goran Topić, Tomoko Ohta, Sophia Ananiadou, and Jun'ichi Tsujii. **brat: a Web-based Tool for NLP-Assisted Text Annotation** *In Proceedings of the Demonstrations at the 13th Conference of the European Chapter of the Association for Computational Linguistics, Avignon, France, April 2012. (citations<sup>†</sup>: 268)*
9. Pontus Stenetorp, Goran Topić, Sampo Pyysalo, Sophia Ananiadou, and Jun'ichi Tsujii. **stav: text annotation visualiser** *In Proceedings of NLP2012, Hiroshima, Japan, March 2012.*
8. Pontus Stenetorp, Sampo Pyysalo, Sophia Ananiadou, and Jun'ichi Tsujii. **Almost Total Recall: Semantic Category Disambiguation Using Large Lexical Resources and Approximate String Matching** *In Proceedings of the Fourth International Symposium on Languages in Biology and Medicine, Singapore, Singapore, December 2011.*
7. Pontus Stenetorp, Sampo Pyysalo, Sophia Ananiadou, and Jun'ichi Tsujii. **Investigating Approaches to Semantic Category Disambiguation Using Large Lexical Resources and Approximate String Matching** *Information Processing Society of Japan Special Interest Groups Notes, Ishigaki, Japan, November 2011.*
6. Pontus Stenetorp, Goran Topić, Sampo Pyysalo, Tomoko Ohta, Jin-Dong Kim, and Jun'ichi Tsujii. **BioNLP Shared Task 2011: Supporting Resources** *In Proceedings of BioNLP Shared Task 2011 Workshop, Portland, Oregon, USA, June 2011. (citations<sup>†</sup>: 35)*
5. Pontus Stenetorp, Sampo Pyysalo, and Jun'ichi Tsujii. **SimSem: Fast Approximate String Matching in Relation to Semantic Category Disambiguation** *In Proceedings of BioNLP 2011 Workshop, Portland, Oregon, USA, June 2011. (citations<sup>†</sup>: 1)*

4. Pontus Stenetorp. **Automated Extraction of Swedish Neologisms using a Temporally Annotated Corpus** *Master of Science in Engineering (MSc Eng) Thesis, Royal Institute of Technology (KTH), Stockholm, Sweden, March 2010. (citations<sup>†</sup>: 4)*
3. Pontus Stenetorp, and Jason Jingshi Li. **Evaluating Cases in Legal Disputes as Rival Theories** *New Frontiers in Artificial Intelligence, March 2010. (10.1007/978-3-642-14888-0\_6)*
2. Jason Jingshi Li, and Pontus Stenetorp. **Evaluating cases in legal disputes as rival theories** *In Proceedings of the Third International Workshop on Juris-informatics (JURISIN 2009), Tokyo, Japan, November 2009.*
1. Han-Cheol Cho, Do-Gil Lee, Jung-Tae Lee, Pontus Stenetorp, Jun'ichi Tsujii, and Hae-Chang Rim. **A Novel Word Segmentation Approach for Written Languages with Word Boundary Markers** *In Proceedings of the ACL-IJCNLP 2009 Conference Short Papers, Suntec, Singapore, August 2009.*

<sup>†</sup>Citations are counted as unique publications citing the work according to Google Scholar.