

Elena FILATOVA

PERSONAL DATA

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EDUCATION

- May 2008; Ph.D., Computer Science, Columbia University, New York, NY, USA
- June 2001; M.Sc., Computational Linguistics, University of Southern California, Los Angeles, CA, USA
- June 1999; 5-year degree (diploma), Comparative Linguistics of Germanic Languages, Moscow State University, Moscow, Russia
- June 1998; 5-year degree (diploma), Applied Mathematics, Moscow State University, Moscow, Russia

PROFESSIONAL EMPLOYMENT

- Aug. 2015 – present: CityTech CUNY, New York City College of Technology (CityTech), City University of New York (CUNY), New York, NY, USA
 - June 2020 – present: Program Director for BS in Data Science, Department of Computer Systems Technology, CityTech CUNY, Brooklyn, NY, USA
 - Dec. 2018 – present: doctoral faculty member, CUNY Graduate Center, Linguistics program
 - Aug. 2017 – present: doctoral faculty member, CUNY Graduate Center, Computer Science program
 - Aug. 2015 – present: Assistant Professor, Department of Computer Systems Technology, CityTech CUNY, Brooklyn, NY, USA
- Fall 2014: Associate Chair for Undergraduate Studies, Department of Computer and Information Science, Fordham University, Bronx, NY, USA
- Aug. 2008 – Aug. 2015: Assistant Professor, Department of Computer and Information Science, Fordham University, Bronx, NY, USA
- Sept. 2007 – July 2015: Solution Architect, InforSense, Cambridge, MA, USA
- Summer 2004: Summer Intern, IBM Research, TJ Watson, Hawthorne, NY USA
- May 2000 – July 2001 Research Assistant, Information Sciences Institute (ISI/USC), Marina Del Rey, CA, USA

TEACHING EXPERIENCE

- Introduction to Methods in Computational Linguistics I (Fall 2020, Fall 2021), Instructor, Graduate Center, CUNY
- Advanced Natural Language Processing (Spring 2019), Instructor, Graduate Center, CUNY
- Text Mining (Spring 2018), Instructor, Graduate Center, CUNY

- Information and Data Management I (Fall 2020, Spring 2021), Course coordinator, Instructor, CityTech CUNY
- Information and Data Management II (Fall 2021), Course coordinator, Instructor, CityTech CUNY
- Database Design (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020, Spring 2021), Instructor, CityTech CUNY
- Problem Solving with Computer Programming (Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Fall 2018, Spring 2019, Fall 2019), Instructor, Course Coordinator CityTech CUNY (till Spring 2019)
- Introduction to Computer Systems (Fall 2015, Spring 2016), Instructor, CityTech CUNY
- Algorithms and Data Analysis (Fall 2010, Fall 2012), Instructor, Fordham University
- Computer Algorithms (Fall 2008, Fall 2009, Fall 2010, Fall 2012), Instructor, Fordham University
- Computers and Robots in Movies (Fall 2012, Spring 2013, Fall 2014), Instructor, Fordham University
- Cyberspace: Ethics and Issues (Spring 2010, Fall 2014), Instructor, Fordham University
- Data Base Systems (Fall 2008), Instructor, Fordham University
- Data Mining (Spring 2013, Fall 2014), Instructor, Fordham University
- Machine Learning (Fall 2009), Instructor, Fordham University
- Structures of Computer Science (Spring 2011, Spring 2012), Instructor, Fordham University
- Theory of Computation (Spring 2009, Spring 2010, Spring 2011), Instructor, Fordham University
- Artificial Intelligence, Teaching Assistant, Columbia University
- Programming Languages and Translators, Teaching Assistant, Columbia University

PUBLICATIONS

Journals

- E. Filatova, **Information Overlap in Multilingual Wikipedia and Summarization**, International Journal of Cooperative Information Systems (IJCIS), December (2012)
- E. Filatova and J. Prager, **Occupation inference through detection and classification of biographical activities**, International Journal of Cooperative Information Systems (IJCIS), Data and Knowledge Engineering (DKE) 76–78 (2012), pages 39–57

Refereed Conference and Workshop Publications

- E. Filatova, D. Hecht, **Using Data Science to Create an Impact on a City Life and to Encourage Students from Underserved Communities to Get into STEM**, 2021. In the Proceedings of the ASEE Conference, Virtual meeting.
- E. B. Çoban, E. Filatova, **Incendiary News Detection**, 2019. In the Proceedings of the 32nd international FLAIRS conference, FLAIRS-32, Sarasota, FL.
- D. Difallah, E. Filatova, P. Ipeirotis, **Demographics and Dynamics of Mechanical Turk Workers**, 2018. In the Proceedings of the 11th ACM International Conference on Web Search and Data Mining (WSDM), Los Angeles, CA
- E. Filatova, **Sarcasm Detection using Sentiment Flow Shift**, 2017. In the Proceedings of the 30th international FLAIRS conference, FLAIRS-30, Marco Island, FL.

- E. Filatova, **Irony and Sarcasm: Corpus Generation and Analysis Using Crowdsourcing**, 2012. In the Proceedings of the eighth international conference on Language Resources and Evaluation, LREC, Istanbul, Turkey.
- J. Tetreault, E. Filatova and M. Chodorow, **Rethinking Grammatical Error Annotation and Evaluation with the Amazon Mechanical Turk**, 2010. In the Proceedings of the 5th Workshop on Innovative Use of NLP for Building Educational Applications, NAACL, Los Angeles, California.
- E. Filatova **Multilingual Wikipedia, Summarization, and Information Trustworthiness**, 2009. In the Proceedings of the SIGIR Workshop on Information Access in a Multilingual World, Boston, Massachusetts.
- E. Filatova, **Directions for Exploiting Asymmetries in Multilingual Wikipedia**, 2009. In the Proceedings of the Third International Workshop On Cross Lingual Information Access, NAACL, Boulder, Colorado.
- F. Biadys, J. Hirschberg and E. Filatova, **An Unsupervised Approach to Biography Production using Wikipedia**, 2008. In the Proceedings of ACL, Columbus, Ohio.
- E. Filatova, V. Hatzivassiloglou and K. McKeown, **Automatic Creation of Domain Templates**, 2006. In the Proceedings (Posters) of ACL/COLING, Sydney, Australia.
- E. Filatova and J. Prager, **Tell Me What You Do And I'll Tell You What You Are: Learning Occupation-Related Activities for Biographies**, 2005. In the Proceedings of HLT/EMNLP, Vancouver, Canada.
- E. Filatova and V. Hatzivassiloglou, **A Formal Model for Information Selection in Multi-Sentence Text Extraction**, 2004. In the Proceedings of COLING, Geneva, Switzerland.
- E. Filatova and V. Hatzivassiloglou, **Event-Based Extractive Summarization**, 2004. In the Proceedings of ACL Workshop on Summarization, Barcelona, Spain.
- E. Filatova and V. Hatzivassiloglou, **Domain-Independent Detection, Extraction, and Labeling of Atomic Events**, 2003. In the Proceedings of RANLP, Borovets, Bulgaria.
- E. Filatova, E. Hovy, **Assigning Time-Stamps to Event-Clauses**, 2001. In the Proceedings of ACL Workshop on Temporal and Spatial Reasoning at the Conference. Toulouse, France. Also in: I. Mani, J. Pustejovsky, and R. Gaizauskas (eds.). *The Language of Time: A Reader*. 2004. Oxford University Press.

Book Chapters

- E. Filatova and V. Hatzivassiloglou, **Marking Atomic Events in Sets of Related Texts**, In N. Nicolov, K. Boncheva, G. Angelova, and R. Mitkov (Eds). *Recent Advances in Natural Language Processing Part III*. 2003. John Benjamin Publishers CILT series (Current Issues in Linguistic Theory)
- E. Filatova and E. Hovy, **Assigning Time-Stamps to Event- Clauses**, 2004 In I.Mani, J. Pustejovsky, and R. Gaizauskas (eds.) *The Language of Time: A Reader*. 2004. Oxford University Press.

Unrefereed Publications and Patents

- H. Orphys, W. Jaworski, E. Filatova, **Determining correct answers to tax and accounting issues arising from business transactions and generating accounting entries to record those transactions using a computerized predicate logic implementation**. 2020.
- D. Roussinov, M. Chau, E. Filatova, J. Robles, **Building on Redundancy: Factoid Question Answering, Robust Retrieval and the “Other”**, 2005. In the Proceedings of Text REtrieval Conference (TREC), Gaithersburg, MD.

- S. Pradhan, G. Illouz, S. Blair-Goldensohn, A. Schlaikjer, V. Krugler, E. Filatova, P. Duboue, H. Yu, R. Passonneau, S. Bethard, V. Hatzivassiloglou, W. Ward, D. Jurafsky, K. McKeown, and J. Martin, **Building a Foundation System for Producing Short Answers to Factual Questions**, 2002. In the Proceedings of Text REtrieval Conference (TREC), Gaithersburg, MD.
- E. Hovy, E. Filatova, M. King, and B. Maegaard, **The ISLE Classification of Machine Translation Evaluations**, 2001. Technical report

RESEARCH GRANTS

- 2018–2019: *The Analysis of Human Languages Distribution For The Mechanical Turk Workers Population*. PSC-CUNY Research Award, \$3,500
- 2008–2009: *Exploiting Information Asymmetries in Multilingual Wikipedia for Automatic Summarization and Contradiction Detection*. Fordham First Year Faculty Research Grants, \$3,900

ACADEMIC SERVICE

- **Northeast Big Data Innovation Hub Student Data Corps:** Founding Committee
- **Ad-hoc Reviewer for Journals:**
 - AI (Artificial Intelligence)
 - Journal Computational Linguistics
 - Data and Knowledge Engineering (DKE)
 - IEEE Intelligent Systems Magazine
 - Information Processing and Management Journal (IPM)
 - International Journal of Cooperative Information Systems (IJCIS)
 - Journal of Artificial Intelligence Research (JAIR)
 - Language Resources and Evaluation (LREV)
 - Transactions on Knowledge and Data Engineering (TKDE)
 - World Wide Web Journal
- **Reviewer for Conferences and Workshops:**
 - ACL 2006, 2018, 2019
 - ACL (Student Research Workshop) 2002, 2005
 - ACL-IJCNLP 2009, 2021
 - AIST 2016, 2017, 2018, 2019
 - AINL 2018
 - CIKM 2020
 - EMNLP 2011, 2018, 2019, 2020
 - Dialog 2009, 2010
 - DSAA 2018, 2019
 - EACL 2012
 - IJCAI 2016
 - NAACL 2010, 2012
 - NAACL/HLT 2003 (Student Research Workshop)
 - NAACL 2018 Workshop on Figurative Language Processing
 - WWW 2017 (Crowdsourcing Research Track)

- **CityTech CUNY**
 - 2017 – present Department of Computer Systems Technology Data Science committee
 - 2016 – 2020 CityTech GenEd committee
 - 2016 – present Department of Computer Systems Technology curriculum committee
 - 2016 – 2017 Department of Computer Systems Technology colloquium committee
- **Fordham University**
 - New Media and Digital Design program, Executive committee member
 - Fordham STEM Faculty-Students Research Workshop (FS2RW 2010, 2011), organizing committee, web master
 - Freshman adviser: 2009–2011
 - Undergraduate Research Symposium 2009, 2010, 2011: organizing committee, submission site support
 - Conference on Quantitative Social Science Research Using R: organizing committee, web master
 - Faculty Grant committee: reviewer
 - Department of Computer and Information Systems committees: CIS Web and URL; Systems and Space
- **Columbia University**
 - Columbia NLP group meetings (Fall 2006, Spring 2007): organizer
 - Columbia NLP reading group meetings (Fall 2002, Spring 2003): organizer