

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: New York City College of Technology (CityTech), City University of New York (CUNY), New York, NY, USA
 - Aug. 2022 – Present: Associate Professor, Department of Computer Systems Technology, CityTech CUNY, Brooklyn, 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 – Aug. 2022: Assistant Professor, Department of Computer Systems Technology, CityTech CUNY, Brooklyn, NY, USA
- Aug. 2008 – Aug. 2015: Assistant Professor, Department of Computer and Information Science, Fordham University, Bronx, NY, USA
 - Fall 2014: Associate Chair for Undergraduate Studies, Department of Computer and Information Science, Fordham University, Bronx, NY, 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

- Natural Language Processing (Fall 2022), Course coordinator, Instructor, CityTech CUNY
- Information Visualization (Spring 2022, Fall 2022), Course coordinator, Instructor, CityTech CUNY
- Information and Data Management II (Fall 2021), Course coordinator, Instructor, CityTech CUNY
- Information and Data Management I (Fall 2020, Spring 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 (till Spring 2019) CityTech CUNY
- 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, Y.-W. Chen, H. Li, **Analysis of the COVID-19 Impact on Students' Enrollment, Performance, and Retention**, 2023. In the Proceedings of the ASEE Annual Conference, Baltimore, MD.
- 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

- **NACLO (North American Computational Linguistics Open)**
 - 2024: Program Committee Members, CUNY Site Coordinator, Round 1 grader
- **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, ACL-IJCNLP, ACL (Student Research Workshop)
 - CIKM
 - EMNLP
 - EACL
 - IJCAI
 - NAACL, NAACL/HLT (Student Research Workshop)
 - WWW (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