

Elena FILATOVA

PERSONAL DATA

Department of Computer Systems Technology
New York City College of Technology, CUNY
Namm Hall 914
300 Jay Street
Brooklyn, NY 11201, USA

Email: efilatova@citytech.cuny.edu

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

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

- N. Majmudar, E. Filatova, **Can LLMs Solve and Generate Linguistic Olympiad Puzzles?**, EMNLP 2025, Full paper, Main Conference, Suzhou, China, November 2025
- V. Sharma, M. Shokri, S. Jain, S. Levitan, E. Filatova, **Analysis of Propaganda in Tweets From Politically Biased Sources**, FLAIRS-38, Daytona Beach, FL, May 2025
- A. Toliyat, E. Filatova, R. Etemadpour **Inter-Annotator Agreement and Its Reflection in LLMs and Responsible AI**, Short paper, FLAIRS-38, Daytona Beach, FL, May 2025
- V. Sharma, M. Shokri, S. Jain, S. Ita Levitan, E. Filatova, **Propasafe: A BERT-based offline tool for propaganda detection**, WWW 2025 conference, demo paper, Sydney, Australia, April 2025
- M. Shokri, V. Sharma, E. Filatova, S. Jain, S. I. Levitan, **Subjectivity Detection in English News using Large Language Models**, 14th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis, Bangkok, Thailand, August 2024
- 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.

Other Publications and Patents

- T. Matloob Haghanikar, E. Filatova, **Sentiment Analysis of African American Young Adult Novels: Detecting Emotion Patterns**, November 2024. *The Journal of Research on Libraries and Young Adults*, 14(1)
- T. Matloob Haghanikar, E. Filatova, **What Emotions Jason Reynolds' Young Adult Novels Convey? A Sentiment Analysis**, May 2023. *World Journal of Educational Research* 10(3)
- 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

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, Spring 2023), Course coordinator, Instructor, CityTech CUNY
- Information and Data Management I (Fall 2020, Spring 2021), Course coordinator, Instructor, CityTech CUNY
- Information and Data Management II (Fall 2021, Fall 2024, Spring 2025, Fall 2025), 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, Fall 2024, Fall 2025), 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

RESEARCH GRANTS

- 2025: *College Now For Careers*. CUNY RF Award, \$3,000
- 2024-2025: *Authorship Verification in Cross-Linguistic (and Low Resource) Settings*. Google Cybersecurity Grant
- 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)**
 - Logistics Committee Member, CUNY Graduate Center Site Coordinator
- **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 (LREC)
- Transactions on Knowledge and Data Engineering (TKDE)
- World Wide Web Journal
- **Reviewer for Conferences and Workshops:**
 - ACL, ACL-IJCNLP, ACL (Student Research Workshop)
 - CIKM
 - COLING
 - EMNLP
 - EACL
 - IJCAI
 - NAACL, NAACL/HLT (Student Research Workshop)
 - WWW (Crowdsourcing Research Track)
- **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