

Anna Prokofieva

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EDUCATION

MS/PhD in Computer Science, Columbia University 2012 – present
GPA: 3.9

Relevant Courses: Natural Language Processing; Speech Recognition; Speaker Identification; NLP, Machine Learning and the Web

BA & BSc, Majors in Computer Science and Linguistics, McGill University 2009 – 2012
GPA: 3.75

AWARDS AND HONORS

- JW McConnell Entrance Scholarship 2009
- Canadian Parents for French Scholarship 2009
- BC Provincial Government Passport for Education Scholarship 2009
- BC Provincial Examination Scholarship 2009
- Principal's Academic Honour Roll for Student-Athletes 2009 – 2010
- Member of the Golden Key Honor Society 2010 – present
- Barry Sullivan Law Cup (Public Speaking Contest) 2009
- Twice District Winner of Concours d'Art Oratoire, 2nd place at Provincials 2007, 2009

RESEARCH INTERESTS

Natural Language Processing, Speech Processing

RESEARCH EXPERIENCE

Graduate Research Assistant, Speech Processing Lab, Columbia 2012 – present

"Hedge Detection and Anomaly Analysis":

- Created an annotation manual
- Implemented code extracting acoustic features in a large-scale multi-performer system
- Currently working on annotating data using AMT and running SVM and CRF classifiers
- Will be adding acoustic features in the near future

"Speech and Gestural Entrainment in Collaborative and Competitive Conditions":

- Developed an experimental paradigm for entrainment research
- Supervised a Masters student creating a web interface for the experiment

Research Assistant, Sociolinguistics, McGill 2012

"Foreign-a words and the third low vowel of Canadian English":

- Carried out fieldwork for a sociolinguistic study of foreign-/ah/ pronunciation in Canadian and American dialects
- Contacted participants and conducted sociolinguistic interviews

R&D Assistant, Syscon Justice Systems "Sound-Alike Search Function":	2011
<ul style="list-style-type: none"> • Researched phonetic algorithms for a sound-alike search function • Implemented Daitch-Mokotoff, Beider-Morse and Soundex algorithms • Conducted testing on a large-scale database • Wrote a final technical report recommending an algorithm to the Chief Architect 	
Research Assistant, Speech Learning Lab, McGill	2011 – 2012
<ul style="list-style-type: none"> • Annotated spectrograms in Praat • Reported on differences in speech patterns of children during L2-acquisition • Built experiments using Experiment Builder for testing vowel perception 	
Research Assistant, Language Development Lab, McGill	2009 – 2010
"Infant Acquisition of Ambiguous N/V pairings":	
<ul style="list-style-type: none"> • Transcribed and coded videos of French-speaking participants using CHAT 	

CONFERENCES

Prokofieva, A. (2012). Social Factors Affecting /tr/ Affrication. *Arts Undergraduate Research Event*. McGill University, Montreal, QC. Feb. 1, 2012.

Prokofieva, A. (2011). Social Stratification in the Affrication of Word-Initial /tr/ Clusters. *Ottawa Conference for Linguistics Undergraduates*, Ottawa, ON, Dec. 3, 2011.

TECHNICAL SKILLS

- Experienced in Java, Bash and Praat
- Familiar with C, C++, SQL, Python, and MATLAB

WORK EXPERIENCE

Emerging Scholars Program Coordinator, Columbia University	2012 – present
<ul style="list-style-type: none"> • Increased enrolment and applications by 200% by overhauling recruiting • Handled logistical arrangements for running a 40 person class • Created teaching materials on various CS topics (eg. computational linguistics) 	
LSAT Instructor, Kaplan	2010 – 2011
<ul style="list-style-type: none"> • Underwent extensive training in teaching and presentation methods • Taught 3-hour long classes on LSAT preparation • Held one-on-one tutoring sessions 	
Translator, Self-employed	2008 – 2009
<ul style="list-style-type: none"> • Translated a variety of texts for commercial and private purposes <ul style="list-style-type: none"> ◦ English to French, French to English and Russian to English 	
Tutor, Self-employed	2006 – 2009
<ul style="list-style-type: none"> • Tutored children from the ages of 8-17 in Math, English and French 	