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Education

- Sep 2018  **Ph.D. Computer Science, CUNY Graduate Center, New York, US.**
Thesis title: *Personality Recognition For Deception Detection.*
Advisor: Rivka Levitan.
Committee: Andrew Rosenberg, Michael Mendel, Alla Rozovskaya.
- Sep 2015  **M.Ph. Computer Science, CUNY Graduate Center, New York, US.**
Advisor: Andrew Rosenberg.
Committee: Changhe Yuan, Liang Huang.
- Dec 2011  **M.A. Computer Science, CUNY Queens College, Flushing, US.**
- Jun 2007  **B.S. Computer Science, Jilin University, Changchun, China.**




Employment

- Jan 2019 – Present  **Assistant Professor.**
Engineering Technology Department,
Queensborough Community College,
The City University of New York, Bayside, NY.
- Aug 2018 – Jan 2019  **Substitute Lecturer.**
Engineering Technology Department,
Queensborough Community College,
The City University of New York, Bayside, NY.
- Aug 2017 – Aug 2018  **Substitute Lecturer.**
Math and Computer Science Department,
York College,
The City University of New York, Jamaica, NY.
- Jun 2017 – Dec 2017  **Research Engineer Intern.**
AOL, New York, NY.
- Jan 2017 – Jan 2019  **Adjunct Faculty.**
Engineering Technology Department,
Queensborough Community College,
The City University of New York, Bayside, NY.
- May 2016 – Aug 2016  **Research Engineer Intern.**
Sony Interactive Entertainment America, San Mateo, CA.
- Aug 2015 – Sep 2015  **Intern.**
Department of Sanitation,
New York City government, New York, NY.
- Sep 2014 – Oct 2017  **Adjunct Faculty.**
Computer Science Department,
Queens College,
The City University of New York, Flushing, NY.
- Jun 2012 – May 2017  **Research Assistant.**
Speech Lab of CUNY,
The City University of New York, New York, NY.

Employment (continued)

- Nov 2011 – Dec 2012  **Intern.**
Department of Information Technology and Telecommunication,
New York City government, New York, NY.
- Oct 2009 – May 2018  **College Assistant.**
Learning Center,
Queensborough Community College,
The City University of New York, Bayside, NY.

Research

- Jun 2017 – Aug 2017  **Develop Automated Dialogue Model (AOL).**
Manager: Davood Shamsi.
To build a satisfying chatbot that has the ability of managing a goal-oriented multi-turn dialogue, accurate modeling of human conversation is crucial. We concentrate on the task of response selection for multi-turn human-computer conversation in which given a context, the model ranks provided candidates and chooses the highest rank one as the next utterance. We approach the problem by proposing deep neural networks using Long Short-Term Memory (LSTM) unit combined with new networks, which extract relations between context and response words and information on frequency of words occurrence.
- May 2016 – Aug 2016  **Develop robust ASR and TTS (SONY).**
Mentor: Jaekwon Yoo and Ruxin Chen.
Develop robust Automatic Speech Recognition (ASR) technologies to control various kinds of distortions and variations such as channel and environment distortions, emotional speech, variety of speaking rate and speaking style for multiple languages. Improve acoustic model training and acoustic model adaptation for Text To Speech (TTS) usage. Expand existing TTS technology for multiple languages and applications. Helped to debug and improve runtime voice recognition and sample voice applications for games.
- Sep 2012 – Present  **Deceptive Speech across Cultures.**
Advisor: Andrew Rosenberg (2012-2015) and Rivka Levitan (2016-2018).
Collaborators: Julia Hirschberg and Sarah Ita Levitan (Columbia University), Michelle Levine (Barnard College).
Deception in speech is indicated by a wide range of spoken behaviors. These vary both within and across speakers. We are currently examining the cultural contributions to deceptive behavior. There is also evidence that a listener's personality can have a significant impact in their ability to detect deception. We are expanding this investigation to explore the impact of a speaker's personality on cues of deception in their speech.

Teaching

- Queensborough Community College  **Web Technology I.**
Spring 2019, Fall 2018.
-  **Introduction To C++ Program.**
Spring 2019, Fall 2018.
-  **Creating Smart Phone Apps.**
Fall 2018, Spring 2018, Fall 2017, Spring 2017.
- York College  **Network Computing.**
Spring 2018.

Teaching (continued)

	Artificial Intelligence. Spring 2018.
	Introduction to Computing. Spring 2018, Fall 2017.
	Business Programming. Fall 2018
Queens College	Object Oriented Programming in C++ Lab. Fall 2017, Spring 2017, Fall 2016, Spring 2016, Fall 2015.
	Object Oriented Programming in Java Lab. Spring 2017, Fall 2015, Spring 2015, Fall 2014.
	Algorithmic Problem Solving Lab. Fall 2015, Spring 2015.

Activities

Member	ISCA (2013 – Present).
Awards and Admissions Committee	CS Dept. of GC CUNY (2015 – 2018).

Publications






- 1 An, G. & Levitan, R. (2018a). Comparing approaches for mitigating intergroup variability in personality recognition. *arXiv preprint, abs/1802.01405*. arXiv: 1802.01405.
<http://arxiv.org/abs/1802.01405>
- 2 An, G. & Levitan, R. (2018b). Lexical and acoustic deep learning model for personality recognition. In *Interspeech 2018, 19th annual conference of the international speech communication association, hyderabad, india, 2-6 september 2018*. (pp. 1761–1765). doi:10.21437/Interspeech.2018-2263
- 3 An, G., Levitan, S. I., Hirschberg, J., & Levitan, R. (2018). Deep personality recognition for deception detection. In *Interspeech 2018, 19th annual conference of the international speech communication association, hyderabad, india, 2-6 september 2018*. (pp. 421–425). doi:10.21437/Interspeech.2018-2269
- 4 An, G., Shafiee, M., & Shamsi, D. (2018). Improving retrieval modeling using cross convolution networks and multi frequency word embedding. *arXiv preprint, abs/1802.05373*. arXiv: 1802.05373.
<http://arxiv.org/abs/1802.05373>
- 5 Levitan, S. I., Levitan, Y., An, G., Levine, M., Levitan, R., Rosenberg, A., & Hirschberg, J. (2016, June). Identifying individual differences in gender, ethnicity, and personality from dialogue for deception detection. In *Proceedings of the second workshop on computational approaches to deception detection* (pp. 40–44). San Diego, California: Association for Computational Linguistics.
<http://www.aclweb.org/anthology/W16-0806>
- 6 An, G., Levitan, S. I., Levitan, R., Rosenberg, A., Levine, M., & Hirschberg, J. (2016). Automatically classifying self-rated personality scores from speech. In *Interspeech 2016, 17th annual conference of the international speech communication association, san francisco, ca, usa, september 8-12, 2016* (pp. 1412–1416). doi:10.21437/Interspeech.2016-1328
- 7 Levitan, S. I., An, G., Ma, M., Levitan, R., Rosenberg, A., & Hirschberg, J. (2016). Combining acoustic-prosodic, lexical, and phonotactic features for automatic deception detection. In *Interspeech 2016, 17th annual conference of the international speech communication association, san francisco, ca, usa, september 8-12, 2016* (pp. 2006–2010). doi:10.21437/Interspeech.2016-1519

- 8 An, G., Brizan, D. G., Ma, M., Morales, M., Syed, A. R., & Rosenberg, A. (2015). Automatic recognition of unified parkinson's disease rating from speech with acoustic, i-vector and phonotactic features. In *INTERSPEECH 2015, 16th annual conference of the international speech communication association, dresden, germany, september 6-10, 2015* (pp. 508–512). http://www.isca-speech.org/archive/interspeech%5C_2015/i15%5C_0508.html
- 9 Levitan, S. I., An, G., Wang, M., Mendels, G., Hirschberg, J., Levine, M., & Rosenberg, A. (2015). Cross-cultural production and detection of deception from speech. In *Proceedings of the 2015 ACM workshop on multimodal deception detection, w added@icmi 2015, seattle, washington, usa, november 13, 2015* (pp. 1–8). doi:10.1145/2823465.2823468
- 10 Levitan, S. I., Levine, M., Hirschberg, J., Cestero, N., An, G., & Rosenberg, A. (2015). Individual differences in deception and deception detection. Nice, France: Cognitive 2015. http://www.thinkmind.org/index.php?view=article&articleid=cognitive_2015_3_40_40057
- 11 An, G., Brizan, D. G., & Rosenberg, A. (2013). Detecting laughter and filled pauses using syllable-based features. In *INTERSPEECH 2013, 14th annual conference of the international speech communication association, lyon, france, august 25-29, 2013* (pp. 178–181). http://www.isca-speech.org/archive/interspeech%5C_2013/i13%5C_0178.html

Awards

- 2018  ISCA Travel Grant (Interspeech 2018).
- 2017 – 2018  University Fellowship (CUNY Graduate Center).
- 2015 – 2016  University Fellowship (CUNY Graduate Center).
- 2015  Best Paper Award (Cognitive 2015).
- 2013 – 2014  University Fellowship (CUNY Graduate Center).

Skills

- Programming  Python, Java, C + + , C, ~~Mat~~TeX, HTML, CSS, JavaScript, PHP, Lisp, Mips, R, Haskell, Prolog.
- Research Toolkits  Keras, Weka, Tensorflow, Praat, OpenSmile, Kaldi, Phnrec, Autobi, FFV.
- Teaching Toolkits  CUNYFirst, BlackBoard, StarFish, Atom, Notepad + + , Microsoft Office, Microsoft Visual Studio, Eclipse.
- Operating System  Windows, MAC OS, Linux, Unix.
- Languages  English, Mandarin Chinese, Korean.

References

- Dr. Andrew Rosenberg** Research Staff Member at Google.
- Prof. Rivka Levitan** Assistant Professor at Brooklyn College.
- Prof. Julia Hirschberg** Chair of the Computer Science Department at Columbia University.