

# Elizabeth E. Salesky

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## EDUCATION

### Carnegie Mellon University

*M.S. in Language Technologies*

Advisor: Alex Waibel

Pittsburgh, PA

May 2019 (Expected)

### Dartmouth College

*B.A. in Mathematics and Linguistics*

Hanover, NH

June 2012

Honors Thesis: "A Current Analysis of Unsupervised Morphological Induction Models"

Activities: Div. I Women's Rowing, Hopkin's Center for the Arts, Dartmouth Outing Club

### Awards

Women in Defense HORIZONS Scholarship

2018-2019

Honors in Linguistics

2012

Citation in Intro to Computational Linguistics

2011

### Additional Coursework

Massachusetts Institute of Technology, *Speech Recognition*

Spring 2017

Harvard Extension School, *Chinese I*

Fall 2015

Linguistic Society of America, *Summer School*

July 2015

Massachusetts Institute of Technology, *Cognitive Science*

Spring 2014

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## EXPERIENCE

### Karlsruhe Institute of Technology

*Mitarbeiter*

Karlsruhe, Germany

May–Aug. 2018

- Researched implicit removal of disfluencies in end-to-end neural machine translation

### Karlsruhe Institute of Technology

*Mitarbeiter*

Karlsruhe, Germany

Jun.–Aug. 2017

- Researched end-to-end models for speech-to-text translation
- Developed neural models for re-punctuation and casing between ASR and MT

### MIT Lincoln Laboratory

*Associate Staff*

Lexington, MA

Aug. 2015–Jun. 2017

- Researched novel alignment and inflection generation techniques for machine translation, trained competitive speech and text translation systems for international evaluations
- Researched adaptation techniques for translating languages with limited parallel data
- Wrote webservice for online text difficulty assessment application
- Supervised summer intern on topic classification project

*Assistant Staff*

Nov. 2012–Jul. 2015

- Incorporated linguistic features into machine translation system
- Defined features for a language-independent text readability assessment system
- Created an interface for an audio keyword searching system; ran Mechanical Turk experiments to determine user efficacy with different UIs and models

### RosettaProject

*Summer Intern*

San Francisco, CA

Jun.–Aug. 2012

- Created an application to upload files from Record-a-thons to RosettaProject's Internet Archive collection, using the Internet Archive API

### Logic and Language Course

*Teaching Assistant*

Hanover, NH

Winter 2012, Spring 2012

- Tutored undergrads in first-order logic, held tutorials 3 times weekly, and graded student work

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## SKILLS

**Programming Languages:** Python, Scala, Julia, Matlab, HTML/CSS, Javascript

**Natural Languages:** Proficient in Spanish; Limited German, Russian

**Software:** L<sup>A</sup>T<sub>E</sub>X, Moses, Praat

## SERVICE

**Reviewer:** ACL (2018), EMNLP (2018), WMT (2018), IWSLT (2018), NLPTEA (2018, 2017), BEA (2017, 2015)

**Volunteer:** Cambridge Literacy Project, Girls Who Code, Girls Who Build, Food For Free

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**PUBLICATIONS** **E. Salesky**, A. Runge, A. Coda, J. Niehues, G. Neubig. "Optimizing Segmentation Granularity for Neural Machine Translation." 2018. (*under review*).

**E. Salesky**, S. Burger, J. Niehues, A. Waibel. "Towards Fluent Translations from Disfluent Speech." In *IEEE Workshop on Spoken Language Technology (SLT'18)*. 2018.

F. Dessloch, TL. Ha, M. Müller, J. Niehues, TS. Nguyen, NQ. Pham, **E. Salesky**, et al. "KIT Lecture Translator: Multilingual Speech Translation with One-Shot Learning." In *Proceedings of the 27th International Conference on Computational Linguistics: System Demonstrations (COLING'18)*. 2018.

**E. Salesky**, J. Ray, W. Shen. "Operational Assessment of Keyword Search on Oral History." In *The 10th International Conference on Language Resources and Evaluation (LREC'16)*. 2016.

**E. Salesky**, W. Shen, "Exploiting Morphological, Grammatical, and Semantic Correlates for Improved Text Difficulty Assessment." In *The Ninth Workshop on Innovative Use of NLP for Building Educational Applications (BEA9)*, Association for Computational Linguistics (ACL'14). 2014.

W. Shen, J. Williams, T. Marius, **E. Salesky**, "A Language-Independent Approach to Automatic Text Difficulty Assessment for Second-Language Learners." In *The Second Workshop for Predicting and Improving Text Readability for Target Reader Populations (PITR)*, Association for Computational Linguistics (ACL'13). 2013.

## EVALUATION CAMPAIGNS

NQ. Pham, M. Sperber, **E. Salesky**, TL. Ha, J. Niehues, A. Waibel. "KIT's Multilingual Neural Machine Translation systems for IWSLT 2017." In *The 14th International Workshop on Spoken Language Translation (IWSLT'17)*. 2017.

J. Gwinnup, T. Anderson, G. Erdmann, K. Young, M. Kazi, **E. Salesky** et al. "The AFRL-MITLL WMT17 Systems: Old, New, Borrowed, BLEU." In *Proceedings of the Second Conference on Machine Translation (WMT'17)*. 2017.

M. Kazi, **E. Salesky**, B. Thompson, et al. "The MITLL-AFRL IWSLT 2016 Systems." In *The 13th International Workshop on Spoken Language Translation (IWSLT'16)*. 2016.

J. Gwinnup, T. Anderson, G. Erdmann, K. Young, M. Kazi, **E. Salesky**, B. Thompson. The AFRL-MITLL WMT16 News-Translation Task Systems. In *Proceedings of the First Conference on Machine Translation (WMT'16)*. 2016.

M. Kazi, B. Thompson, **E. Salesky**, T. Anderson et al. "The MITLL-AFRL IWSLT 2015 Systems." In *The 12th International Workshop on Spoken Language Translation (IWSLT'15)*, pp. 23-30. 2015.

J. Gwinnup, T. Anderson, M. Kazi, **E. Salesky**, et al. "The AFRL-MITLL WMT15 System." In *The 10th Workshop on Machine Translation (WMT'15)*, pp. 112-119. 2015.

M. Kazi, **E. Salesky**, B. Thompson, J. Ray et al. "The MIT-LL/AFRL IWSLT-2014 MT system." In *The 11th International Workshop on Spoken Language Translation (IWSLT'14)*, pp. 65-72. 2014.

M. Kazi, M. Coury, **E. Salesky**, J. Ray, W. Shen et al. "The MIT-LL/AFRL IWSLT-2013 MT system." In *The 10th International Workshop on Spoken Language Translation (IWSLT'13)*, pp. 136-143. 2013.