

# Elizabeth E. Salesky

esalesky@github.io • elizabeth.salesky@gmail.com

---

## EDUCATION

### Johns Hopkins University

*Ph.D. in Computer Science*

Baltimore, MD

Aug 2019 – Present

### Carnegie Mellon University

*M.S. in Language Technologies*

Advisor: Alex Waibel

Pittsburgh, PA

May 2019

### Dartmouth College

*B.A. in Mathematics and Linguistics*

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

Hanover, NH

June 2012

### Awards

Women in Defense HORIZONS Scholarship

2018-2019

IEEE SPS Travel Grant to attend SLT 2018

2018

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

---

## EXPERIENCE

### Karlsruhe Institute of Technology

*Mitarbeiter (Research Staff)*

May–Aug. 2018

Karlsruhe, Germany

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

### Karlsruhe Institute of Technology

*Mitarbeiter (Research Staff)*

Jun.–Aug. 2017

Karlsruhe, Germany

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

### MIT Lincoln Laboratory

*Associate Staff*

Nov. 2012 - Jun. 2017

Lexington, MA

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

*Assistant Staff*

- Incorporated linguistic features into machine translation models
- 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 amounts of training data

### RosettaProject

*Summer Intern*

Jun.–Aug. 2012

San Francisco, CA

- 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*

Winter 2012, Spring 2012

Hanover, NH

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

SKILLS	<b>Programming Languages:</b> Python, Scala, Julia, Matlab, HTML/CSS, Javascript <b>Natural Languages:</b> English (native), Spanish (proficient), German (limited) <b>Software:</b> L <sup>A</sup> T <sub>E</sub> X, Moses, Praat
SERVICE	<b>Reviewer:</b> EMNLP (2019, 2018), WMT (2019, 2018), ACL (2018), IWSLT (2019, 2018), NLPTEA (2018, 2017), BEA (2017, 2015) <b>Evaluation Committee:</b> IWSLT 2019 <b>Volunteer:</b> TechNights, Cambridge Literacy Project, Girls Who Code, Girls Who Build, Food For Free

---

PUBLICATIONS	<p><b>E. Salesky</b>, M. Sperber, A.W. Black. "Exploring Phoneme-Level Speech Representations for End-to-End Speech Translation." <i>ACL</i>. 2019.</p> <p><b>E. Salesky</b>, M. Sperber, A. Waibel. "Fluent Translations from Disfluent Speech in End-to-End Speech Translation." <i>NAACL</i>. 2019.</p> <p><b>E. Salesky</b>, A. Runge, A. Coda, J. Niehues, G. Neubig. "Optimizing Segmentation Granularity for Neural Machine Translation." <i>Machine Translation</i>. 2019. arXiv preprint arXiv:1810.08641 Oct. 2018.</p> <p><b>E. Salesky</b>, S. Burger, J. Niehues, A. Waibel. "Towards Fluent Translations from Disfluent Speech." <i>SLT</i>. 2018.</p> <p>F. Dessloch, T.L. Ha, M. Müller, J. Niehues, T.S. Nguyen, N.Q. Pham, <b>E. Salesky</b>, M. Sperber, S. Stüker, T. Zenkel, A. Waibel. "KIT Lecture Translator: Multilingual Speech Translation with One-Shot Learning." <i>COLING</i>. 2018.</p> <p><b>E. Salesky</b>, J. Ray, W. Shen. "Operational Assessment of Keyword Search on Oral History." <i>LREC</i>. 2016.</p> <p><b>E. Salesky</b>, W. Shen, "Exploiting Morphological, Grammatical, and Semantic Correlates for Improved Text Difficulty Assessment." <i>BEA</i> at <i>ACL</i>. 2014.</p> <p>W. Shen, J. Williams, T. Marius, <b>E. Salesky</b>, "A Language-Independent Approach to Automatic Text Difficulty Assessment for Second-Language Learners." <i>PITR</i> at <i>ACL</i>. 2013.</p>
SHARED TASKS	<p>A. Chaudhary, <b>E. Salesky</b>, G. Bhat, D. Mortenson, J. Carbonell, Y. Tsvetkov. "CMU-01 at the SIGMORPHON 2019 Shared Task on Crosslinguality and Context in Morphology." <i>SIGMORPHON</i>. 2019.</p> <p>NQ. Pham, M. Sperber, <b>E. Salesky</b>, TL. Ha, J. Niehues, A. Waibel. "KIT's Multilingual Neural Machine Translation systems for IWSLT 2017." <i>IWSLT</i>. 2017.</p> <p>J. Gwinnup, T. Anderson, G. Erdmann, K. Young, M. Kazi, <b>E. Salesky</b> B. Thompson, J. Taylor. "The AFRL-MITLL WMT17 Systems: Old, New, Borrowed, BLEU." <i>WMT</i>. 2017.</p> <p>M. Kazi, <b>E. Salesky</b>, B. Thompson, J. Taylor, J. Gwinnup, T. Anderson, G. Erdmann, E. Hansen, B. Ore, K. Young, M. Hutt. "The MITLL-AFRL IWSLT 2016 Systems." <i>IWSLT</i>. 2016.</p> <p>J. Gwinnup, T. Anderson, G. Erdmann, K. Young, M. Kazi, <b>E. Salesky</b>, B. Thompson. The AFRL-MITLL WMT16 News-Translation Task Systems. <i>WMT</i>. 2016.</p> <p>M. Kazi, B. Thompson, <b>E. Salesky</b>, T. Anderson, G. Erdmann, E. Hansen, B. Ore, J. Gwinnup, K. Young, M. Hutt, C. May. "The MITLL-AFRL IWSLT 2015 Systems." <i>IWSLT</i>. 2015.</p> <p>J. Gwinnup, T. Anderson, M. Kazi, <b>E. Salesky</b>, G. Erdmann, K. Young, B. Thompson, C. May. "The AFRL-MITLL WMT15 System." <i>WMT</i>. 2015.</p> <p>M. Kazi, <b>E. Salesky</b>, B. Thompson, J. Ray, M. Coury, W. Shen, T. Anderson, G. Erdmann, J. Gwinnup, K. Young, B. Ore, M. Hutt. "The MIT-LL/AFRL IWSLT-2014 MT system." <i>IWSLT</i>. 2014.</p>

M. Kazi, M. Coury, **E. Salesky**, J. Ray, W. Shen, T. Gleason, T. Anderson, G. Erdmann, L. Schwartz, B. Ore, R. Slyh, J. Gwinnup, K. Young, M. Hutt. "The MIT-LL/AFRL IWSLT-2013 MT system." *IWSLT*. 2013.