LISA F. BAUER

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Education

UNC Chapel Hill — Fall 2017 - Present
4th year Ph.D in Computer Science — *Chapel Hill, NC*
Research Area: Natural Language Processing, Advisor: Prof. Mohit Bansal

The Johns Hopkins University — Fall 2012 - Winter 2016
B.A in Computer Science, Cognitive Science (*concentrations: computation, linguistics*) — *Baltimore, MD*

Publications & Presentations

• ERNIE-NLI: Analyzing the Impact of Domain-Specific External Knowledge on Enhanced Representations for NLI
Lisa Bauer, Lingjia Deng, Mohit Bansal
Proceedings of the Deep Learning Inside Out (DeeLIO) Workshop, NAACL-HLT 2021

• Identify, Align, and Integrate: Matching Knowledge Graphs to Commonsense Reasoning Tasks
Lisa Bauer, Mohit Bansal
Proceedings of EACL 2021

• Simple Compounded-Label Training for Fact Extraction and Verification
Yixin Nie*, **Lisa Bauer*,** Mohit Bansal
Proceedings of the Third Workshop on Fact Extraction and VERification (FEVER) 2020
*Equal Contribution

• Commonsense for Generative Multi-Hop Question Answering Tasks
Lisa Bauer*, Yicheng Wang*, Mohit Bansal
Proceedings of EMNLP 2018
*Equal Contribution

• Automatic Classification of Humpback Whale Social Calls
Irina Tolkova*, **Lisa Bauer***, Antonella Wilby, Ryan Kastner, Kerri Seger, Aaron Thode
Acoustical Society of America Conference, Boston, MA. 2017
*Equal Contribution

NSF REU, Summer 2016
Presented REU research at the 2016 Meeting of the Minds (SoCal NSF CISE REU) annual conference at UCLA, to UCSD E4E collaborators at the San Diego Zoo's Institute for Conservation Research, to COSMOS as outreach to talented youth in mathematics and science, to guests from various institutions including Qualcomm Research, Scripps Institution of Oceanography, and GoPro, and to the E4E research group for weekly internal updates.

Awards

NSF Graduate Research Fellowship — 2018

Skills

Technical

Languages: Python, Java, C/C++, Perl, R
Deep Learning: Pytorch, Tensorflow
Misc: Amazon Mechanical Turk, Jupyter Notebook, AWS, LaTeX

Languages

English, German (native)

RESEARCH EXPERIENCE

Bloomberg LP Summer 2020
Research Intern *New York City, NY*
Supervisor: Duccio Pappadopulo
Project: Worked on conversational thread disentanglement.

Bloomberg LP Summer 2019
Research Intern *New York City, NY*
Supervisor: Lingjia Deng
Project: Worked on integrating external knowledge into neural models for the Natural Language Inference task.

JHU Center for Language and Speech Processing Spring 2017
Research Assistant, Textual Choreography Lab *Baltimore, MD*
Supervisor: Prof. Benjamin Van Durme
Project: Contributed improvements to PredPatt, a predicate extraction tool, by analyzing its applications to foreign language. Additionally, created sentence extraction pipeline and implementation for the corpus-annotation component of a project investigating predicate-triggered veridicality.

NSF Research Experience for Undergraduates (Engineers for Exploration) Summer 2016
UCSD, Department of Computer Science & Engineering *San Diego, CA*
*Supervisor: Prof. Ryan Kastne*r
Project: Designed, implemented, and applied a supervised classification algorithm using Hidden Markov Models to the classification of Humpback whale vocalizations using features derived from spectrograms.

JHU CogNeuro Research Laboratory Spring 2015 - Fall 2016
Technical Research Assistant *Baltimore, MD*
Supervisor: Prof. Brenda Rapp
Project: Developed an adaptive learning algorithm and the respective Java implementation that utilized the minimum edit distance for spelling correction as a scoring function to increase the efficiency of an aphasia treatment study for patients who have spelling deficiencies.

WORK EXPERIENCE

Johns Hopkins Applied Physics Laboratory Summer 2015
Technical Intern for models and simulations in the Air and Missile Defense Sector in the Advanced Concepts and Technologies Group. *Laurel, MD*
Project: Developed C software for PCI communication between components of Kill Vehicle Modular Open Architecture (KVMOA) and published API Instructions to the KVMOA SharePoint site. Also developed a C++ wrapper GPS model compliant with the Missile Defense Agency's supported research simulation software, allowing for data exchange with KVMOA's processor.

OUTREACH/LEADERSHIP

UNC Graduate Women in Computer Science (GWiCS) Fall 2018-Fall 2020
President *Chapel Hill, NC*

UNC SMART program Summer 2018
Undergraduate Research Mentor *Chapel Hill, NC*

United Workers Association, Inc Spring 2017
Campaign Worker *Baltimore, MD*
Canvassed, petitioned, and phone banked to support the Healthy Working Families Act for earned paid sick leave in the state of Maryland.

JHU Jail Tutorial Fall 2014 - Fall 2016
Tutor *Baltimore, MD*

Tutored incarcerated women at the Maryland Penitentiary in GED subjects including mathematics and english.