

# WILLIAM GANTT WALDEN

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## INTERESTS

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Natural Language Understanding, Information Extraction, Summarization, Retrieval-Augmented Generation

## WORK EXPERIENCE

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### Human Language Technology Center of Excellence

October 2024 - Present

*Research Scientist*

*Baltimore, MD*

- Member of the Natural Language Understanding (NLU) team, working on various problems in this space: multilingual and multimodal content understanding and RAG, evaluation for RAG, and scientific claim verification

### Microsoft - Semantic Machines

May 2022 - August 2022

*Research Intern*

*Remote*

- Investigated and implemented techniques for calibration and constrained decoding for few-shot semantic parsing using large language models (GPT-3, Codex); improved top- $k$  parsing accuracy by several points absolute on multiple datasets.

### Okta

July 2017 - July 2019

*Software Engineer*

*San Francisco, CA*

- Led development of Okta's authentication and authorization pipeline, including new frameworks for configurable authorization policies and HTTP callbacks.
- Developed an out-of-the-box self-service registration platform for web apps.

## EDUCATION

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### University of Rochester, Ph.D. Computer Science

June 2024

- Advisor: Aaron Steven White
- Thesis: Document-Level Event Description and Decomposition

### University of Rochester, M.S. Computer Science

May 2021

- Advisor: Aaron Steven White

### Bowdoin College, B.A. Computer Science (honors), *cum laude*, *Phi Beta Kappa*

May 2017

- Advisors: Clare Bates Congdon and Stephen Majercik
- Thesis: An Investigation of Genetics-Based Machine Learning as Applied to Global Crop Yields

## PUBLICATIONS

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\*Denotes equal contribution. **N.B.:** Gantt was my pre-marriage last name.

### *In Submission & Preprints*

- Alexander Martin, Reno Kriz\*, **William Walden\***, Kate Sanders, Hannah Recknor, Eugene Yang, Francis Ferraro, Benjamin Van Durme. 2025. [WIKIVIDEO: Article Generation from Multiple Videos](#). *Under Review*.
- Jiefu Ou\*, **William Walden\***, Kate Sanders, Zhengping Jiang, Kaiser Sun, Jeffrey Cheng, William Jurayj, Miriam Wanner, Shaobo Liang, Candice Morgan, Seunghoon Han, Weiqi Wang, Chandler May, Hannah Recknor, Daniel Khashabi, Benjamin Van Durme. 2025. [CLAIMCHECK: How Grounded Are LLM Critiques of Scientific Papers?](#). *Under Review*.
- **William Walden**, Pavlo Kuchmiichuk, Alexander Martin, Chihsheng Jin, Angela Cao, Claire Sun, Curisia Allen, Aaron Steven White. 2024. [Cross-Document Event-Keyed Summarization](#). *Under Review*.
- **William Gantt** and Aaron Steven White. 2024. [Small Models Are \(Still\) Effective Cross-Domain Argument Extractors](#). *Preprint*.

## ***Published***

- **William Gantt**. [Document-Level Event Description and Decomposition](#). 2024. *Ph.D. Thesis*.
- **William Gantt**, Alexander Martin, Pavlo Kuchmiichuk, Aaron Steven White. 2024. [Event-Keyed Summarization](#). *Findings of the Association for Computational Linguistics: EMNLP 2024*.
- Siddharth Vashishtha, Alexander Martin, **William Gantt**, Benjamin Van Durme, Aaron Steven White. 2024. [FAMuS: Frames Across Multiple Sources](#). *North American Chapter of the Association for Computational Linguistics (NAACL)*.
- **William Gantt**, Shabnam Behzad, Hannah YoungEun An, Yunmo Chen, Aaron Steven White, Benjamin Van Durme, Mahsa Yarmohammadi. 2024. [MultiMUC: Multilingual Template Filling on MUC-4](#). *European Chapter of the Association for Computational Linguistics (EACL)*.
- **William Gantt**, Reno Kriz\*, Yunmo Chen\*, Siddharth Vashishtha\*, Aaron Steven White. 2023. [On Event Individuation for Document-Level Information Extraction](#). *Findings of the Association for Computational Linguistics: EMNLP 2023*.
- Yunmo Chen\*, **William Gantt**\*, Tongfei Chen\*, Aaron Steven White, Benjamin Van Durme. 2023. [A Unified View of Evaluation Metrics for Structured Prediction](#). *Empirical Methods in Natural Language Processing (EMNLP)*.
- Yunmo Chen, **William Gantt**, Weiwei Gu, Tongfei Chen, Aaron Steven White, Benjamin Van Durme. 2023. [Iterative Document-Level Information Extraction via Imitation Learning](#). *European Chapter of the Association for Computational Linguistics (EACL)*. **Outstanding Paper Award**.
- **William Gantt**, Lelia Glass, Aaron Steven White. 2022. [Decomposing and Recomposing Event Structure](#). *Transactions of the Association for Computational Linguistics (TACL)*.
- Benjamin Kane, **William Gantt**, Aaron Steven White. 2021. [Intensional Gaps: Relating doxasticity, bouleticity, veridicality, factivity, and neg-raising](#). *Semantics and Linguistic Theory (SALT)*.
- **William Gantt**\*, Benjamin Kane\*, Aaron Steven White. 2020. [Natural Language Inference with Mixed Effects](#). *The Ninth Joint Conference on Lexical and Computational Semantics (\*SEM)*.

## **SERVICE**

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### **Mentorship**

- Alexander Martin (University of Rochester; B.S. 2024 → Ph.D. student at Johns Hopkins)
- Weiwei Gu (University of Rochester; M.S. 2022 → Ph.D. student at Arizona State)

### **Teaching**

- Machine Learning (CSC 246/446): TA, Spring 2021
- Statistical Speech and Language Processing (CSC 248/448): TA, Fall 2020
- Machines and Consciousness (CSC 191/291): TA, Spring 2020

### **University Service**

- URCS Department Graduate Student Representative: 2023-2024
- URCS Department Ph.D. Admissions Committee: 2023-2024

### **Reviewing**

- ACL: 2023-Present
- EACL: 2023, 2024
- EMNLP: 2022-Present
- NAACL: 2021-Present
- ACL Rolling Review: 2021-Present

## PROJECTS & DATA

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### Decompositional Semantics Initiative

- Dataset and toolkit for commonsense semantic annotations and semantic graphs on top of Universal Dependencies on the English Web Treebank.
- Core contributor to version 2.0 of the Decomp Toolkit.
- Lead developer of UDS-EventStructure dataset ([1]).

### MegaIntensionality

- Co-developer of the MegaIntensionality dataset—a large collection of lexically-triggered belief and desire inferences across 725 English clause-embedding verbs ([2]).

### IARPA BETTER

- Multilingual information extraction (IE) and retrieval (IR) competition funded by IARPA.
- One of the lead developers on the IE team led by Benjamin Van Durme at Johns Hopkins.
- Led to multiple publications at top NLP venues ([3], [4], [5]).

### MultiMUC

- Lead developer of the MultiMUC corpus, a set of translations of the classic MUC-4 template filling dataset into Arabic, Farsi, Mandarin, Korean, and Russian.
- The only publicly available multilingual template filling corpus ([6]).

### MUCSUM

- Lead developer of the MUCSUM dataset, a collection of summaries of all events in the MUC-4 corpus ([7]).

### SEAMuS

- Lead developer of the SEAMuS dataset, a collection of single- and cross-document summaries based on the FAMuS dataset for cross-document argument extraction ([8]).

### DARPA SciFy

- Program focused on assessing the feasibility of novel claims in different scientific domains. Data and subject matter expert (SME) lead for the JHU team.

## HONORS & AWARDS

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### Outstanding Reviewer

EMNLP 2024

### Sproull Fellowship

University of Rochester, September 2019

- The University of Rochester's most prestigious graduate fellowship, awarded to fewer than a dozen incoming PhD students on the basis of an outstanding academic record and unusual potential for graduate study.

### NSF Research Traineeship

University of Rochester, September 2019

- Full-stipend one-year fellowship awarded to a small set of PhD students in Computer Science and Brain and Cognitive Sciences, focused on computationally-oriented, interdisciplinary research training.

### Computer Science Senior-Year Prize

Bowdoin College, May 2017

- Awarded to the student who has achieved the highest distinction in the major program in computer science.

## INVITED TALKS

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### MARE: Automatic Modality-Agnostic Report Evaluation

Lucca, Italy, April 2025

- Eval4Rag Workshop, European Conference on Information Retrieval (ECIR) 2025

### Understanding Events in Multimodal Data via Question Answering

Rochester, USA, April 2025

- Fourth Workshop on Processing and Evaluating Event Representations (PEER 2025)

## **Cross-Document Event-Keyed Summarization**

Rochester, USA, April 2025

- Fourth Workshop on Processing and Evaluating Event Representations (PEER 2025)

## **Event-Keyed Summarization**

Ithaca, USA, April 2024

- Third Workshop on Processing and Evaluating Event Representations (PEER 2024)

## **Structured Representation and Prediction for Document-Level IE**

Rochester, USA, April 2023

- Second Workshop on Processing and Evaluating Event Representation (PEER 2023)

## **Decomposing and Recomposing Event Structure**

Ithaca, USA, April 2022

- First Workshop on Processing and Evaluating Event Representations (PEER 2022)

## **SKILLS**

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### **Programming Languages**

Python (expert)

Java, R, SQL, C, C++, Bash (some experience)

### **Tools & Libraries**

NumPy, Pandas, PyTorch, HuggingFace, AllenNLP, AI2 Tango,  
Amazon Mechanical Turk, Git, Vim