

# David Wan

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## EDUCATION

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**University of North Carolina, Chapel Hill | Ph.D. in Computer Science** **2021 - Present**

- Advisor: Mohit Bansal
- Google PhD Fellowship in NLP for 2024 and 2025

**Columbia University, New York | M.S. in Computer Science** **2020 - 2021**

- Advisor: Kathleen McKeown
- Thesis: Methods for Cross-Language Search and Summarization for Low-Resource Languages

**Columbia University, New York | B.A. in Computer Science** **2016 - 2020**

- Concentration in Linguistics

## RESEARCH & INDUSTRY EXPERIENCE

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### Google Research

**New York, NY**

*Research Intern* | Hosts: Sebastien Baur and Gaurav Singh Tomar

*May 2025 - Nov 2025*

- Benchmarked the factuality of multimodal procedural knowledge.

### Salesforce AI Research

**Palo Alto, CA**

*Research Intern* | Hosts: Shafiq Joty and Jesse Vig

*May 2024 - Oct 2024*

- Analyzed the positional bias of faithfulness metrics in long-form summarization (NAACL 2025).

### FAIR Labs at Meta

**Seattle, WA**

*Research Intern* | Hosts: Ramakanth Pasunuru and Asli Celikyilmaz

*May 2023 - Dec 2023*

- Designed fine-grained hallucination evaluation and correction for summarization (ACL 2024).

### Alexa AI at Amazon

**Seattle, WA**

*Research Intern* | Hosts: Mengwen Liu and Markus Dreyer

*May 2022 - Oct 2022*

- Developed faithfulness-aware decoding strategies for abstractive summarization (EACL 2023).

## RESEARCH INTEREST

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**Interests** Natural Language Generation, Factuality, Multimodal

## RESEARCH PUBLICATIONS

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### PrefixNLI: Detecting Factual Inconsistencies as Soon as They Arise

Sapir Harary, Eran Hirsch, Aviv Slobodkin, **David Wan**, Mohit Bansal, and Ido Dagan.

*Under Review.* [Paper] [Code]

### DART: Leveraging Multi-Agent Disagreement for Tool Recruitment in Multimodal Reasoning

Nithin Sivakumaran, Justin Chen, **David Wan**, Yue Zhang, Jaehong Yoon, Elias Stengel-Eskin, and Mohit Bansal.

*Under Review.* [Paper]

### CLaMR: Contextualized Late-Interaction for Multimodal Content Retrieval

**David Wan**, Han Wang, Elias Stengel-Eskin, Jaemin Cho, and Mohit Bansal.

*Under Review.* [Paper] [Code]

**GenerationPrograms: Fine-grained Attribution with Executable Programs**

David Wan, Eran Hirsch, Elias Stengel-Eskin, Ido Dagan, and Mohit Bansal.

COLM 2025. [Paper] [Code]

**QAPyramid: Fine-grained Evaluation of Content Selection for Text Summarization**

Shiyue Zhang, David Wan, Arie Cattan, Ayal Klein, Ido Dagan, and Mohit Bansal.

COLM 2025. [Paper] [Code]

**LAQuer: Localized Attribution Queries in Content-grounded Generation**

Eran Hirsch, Aviv Slobodkin, David Wan, Elias Stengel-Eskin, Mohit Bansal, Ido Dagan.

ACL 2025. [Paper] [Code]

**MAMM-Refine: A Recipe for Improving Faithfulness in Generation with Multi-Agent Collaboration**

David Wan, Justin Chen, Elias Stengel-Eskin, and Mohit Bansal.

NAACL 2025. [Paper] [Code]

**On Positional Bias of Faithfulness for Long-form Summarization**

David Wan, Jesse Vig, Mohit Bansal, and Shafiq Joty.

NAACL 2025. [Paper] [Code]

**Localizing Factual Inconsistencies in Attributable Text Generation**

Arie Cattan, Paul Roit, Shiyue Zhang, David Wan, Roee Aharoni, Idan Szpektor, Mohit Bansal, and Ido Dagan.

TACL 2025. [Paper] [Code]

**Contrastive Region Guidance: Improving Grounding in Vision-Language Models Without Training**

David Wan, Jaemin Cho, Elias Stengel-Eskin, and Mohit Bansal.

ECCV 2024. [Paper] [Code]

**ACUEval: Fine-grained Hallucination Evaluation and Correction for Abstractive Summarization**

David Wan, Koustuv Sinha, Srini Iyer, Asli Celikyilmaz, Mohit Bansal, and Ramakanth Pasunuru.

ACL 2024. [Paper] [Code]

**HistAlign: Improving Context Dependency in Language Generation by Aligning with History**

David Wan, Shiyue Zhang, and Mohit Bansal.

EMNLP 2023. [Paper] [Code]

**Extractive is not Faithful: An Investigation of Broad Unfaithfulness Problems in Extractive Summarization**

Shiyue Zhang, David Wan, and Mohit Bansal.

ACL 2023. [Paper] [Code]

**Faithfulness-Aware Decoding Strategies for Abstractive Summarization**

David Wan, Mengwen Liu, Kathleen McKeown, Markus Dreyer, and Mohit Bansal.

EACL 2023. [Paper] [Code]

**Evaluating and Improving Factuality in Multimodal Abstractive Summarization**

David Wan and Mohit Bansal.

EMNLP 2022. [Paper] [Code]

**Constrained Regeneration for Cross-Lingual Query-Focused Extractive Summarization**

Elsbeth Turcan, David Wan, Faisal Ladhak, Petra Galuscakova, Sukanta Sen, Svetlana Tchistiakova, Weijia Xu, Marine Carpuat, Kenneth Heafield, Douglas Oard, and Kathleen McKeown.

ACL 2022. [Paper]

## **FactPEGASUS: Factuality-Aware Pre-training and Fine-tuning for Abstractive Summarization**

David Wan and Mohit Bansal.

NAACL 2022. [Paper] [Code]

## **Segmenting Subtitles for Correcting ASR Segmentation Errors**

David Wan, Chris Kedzie, Faisal Ladhak, Elsbeth Turcan, Petra Galuscakova, Elena Zotkina, Zhengping Jiang, Peter Bell, and Kathleen McKeown.

EACL 2021. [Paper]

## **Incorporating Terminology Constraints in Automatic Post-Editing**

David Wan, Chris Kedzie, Faisal Ladhak, Marine Carpuat, and Kathleen McKeown.

WMT 2020. [Paper] [Code]

## **Subtitles to Segmentation: Improving Low-Resource Speech-to-Text Translation Pipelines**

David Wan, Zhengping Jiang, Chris Kedzie, Elsbeth Turcan, Peter Bell, and Kathy McKeown.

CLSSTS 2020. [Paper]

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## **ACHIEVEMENTS AND AWARDS**

**Google PhD Fellowship in Natural Language Processing**, Google. 2024

*One of twelve students globally to receive full funding for two years*

**Theodore R. Bashkow Award, Dept. of Computer Science**, Columbia University. 2020

*One of three undergrads awarded for excelling in independent projects*

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## **PROFESSIONAL SERVICES**

### **Reviewer**

- ACL Rolling Review, December 2023 - October 2025
- ICLR 2026
- EMNLP NewSumm Workshop 2025
- NeurIPS 2025
- EMNLP 2022, 2023
- ACL 2023

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## **INVITED TALKS**

**Research Trend AI** July 2025

- CLAMR: Contextualized Late-Interaction for Multimodal Content Retrieval

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## **TEACHING EXPERIENCE**

### **Columbia University**

*Teaching Assistant for Natural Language Processing*

**New York, NY**

*Jan - May 2019, Jan - May 2020*

### **Columbia University**

*Tutor for Natural Language Processing*

**New York, NY**

*Sep 2019 - Dec 2019*