

# **ACL 2020**

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## **Global research locations**



Aachen Atlanta Arlington Austin Barcelona Bellevue Bengaluru Berkeley Berlin Boston Cambridge Chennai Culver City Cupertino Dublin Edinburgh Gdansk Graz Haifa Hyderabad Irvine London Luxembourg



Manhattan Beach New York Newark North Reading Palo Alto Pasadena

San Diego San Francisco Santa Clara Santa Monica Seattle

Pittsburgh

Shanghai Sunnyvale Sydney Tel Aviv

Tokyo Toronto Tübingen Turin Vancouver Westborough

### Teams that create our next innovations

Alexa | Berlin, Boston, Cambridge, Gdansk, New York, Seattle, Sunnyvale, Turin, Vancouver

Alexa is the cloud-based intelligent agent that powers Echo and other devices designed around voice. We are a team of scientists and engineers creating the technology behind Alexa. Our mission is to push the envelope in Al, NLU, ML, Dialogue Management, ASR, TTS and Audio Signal Processing in order to provide the best experience for our customers.

#### Alexa Automotive | Arlington, London, Munich, Santa Clara, Seattle

Alexa Automotive is building voice-forward, in-vehicle experiences that delight customers, increase safety, and bring the future of transportation to life. Our mission is to continue pushing the envelope in automatic speech recognition (ASR), natural language understanding (NLU), and the voice user interfaces (VUI) to provide the best possible end user experience.

#### Alexa Search | Austin, Berlin, Edinburgh, Manhattan Beach, Seattle, Palo Alto

Alexa Search is part of our ongoing efforts focused on reinventing information extraction and retrieval for voice-forward, multi-modal future. We are tackling some of the most interesting problems on the leading edge of Machine Translation (MT), Machine Learning (ML), and Natural Language Processing (NLP).

#### Alexa Shopping | Chennai, London, Palo Alto, Seattle

Our scientist team creates and invents new natural language algorithms and machine learning approaches to enable customers to discover and buy products from the Amazon catalog simply through natural conversation with their smart devices such as Echo, Fire TV, and beyond. We invent today, the shopping experiences of tomorrow.







#### Amazon Polly | Berlin, Cambridge

AWS Polly is a service that turns text into lifelike speech, allowing you to create applications that talk, and build entirely new categories of speech-enabled products. We are a Text-to-Speech (TTS) service that uses advanced deep learning technologies to synthesize speech that sounds like a human voice.

### AWS Search | Barcelona, Berkeley, Palo Alto, Seattle

Whenever a customer visits an Amazon site worldwide and types in a query or browses through product categories, Amazon Search services go to work. We develop and deploy high performance, fault-tolerant distributed search systems that use different ML applications to offer search suggestions, understand intent of queries, rank products, and optimize results.

#### AWS Translate | Aachen, New York, Pittsburgh, Seattle

Translate is a neural machine translation service that delivers fast, high-quality, and affordable language translation. Neural machine translation is a form of language translation automation that uses deep learning models to deliver more accurate and more natural sounding translation than traditional statistical and rule-based translation algorithms.

#### Product Graph | Seattle

With hundreds of millions of customers and billions of products, Amazon will offer a challenging but fun journey to turn this big and rapidly changing data into high-quality knowledge, and the great opportunities to impact various aspects of eCommerce. We work on data extraction, data quality, data integration, knowledge management, graph mining, search, NLP, and Machine learning.

## **Academic collaborations**

## Student programs

We hire PhD and Masters interns throughout the year across a wide variety of teams, locations and domains. Relevant areas of research include:

- Machine learning
- Computer vision
- Natural language processing
- Speech
- Robotics
- Statistics
- Operations research
- Software development
- Hardware development



#### **Amazon Scholars**

We've got a flexible new program for professors which ranges from part-time to full-time research roles across multiple teams and domains at Amazon. Want to know more? Visit amazon.science/scholars or email scholars@amazon.com.

#### **AWS Cloud Credits for Research**

We offer credits for AWS services for researchers building cloud-hosted publicly available science-as-a-service applications, software, or tools to facilitate their future research and the research of their community. Apply online at aws.amazon.com/research-credits

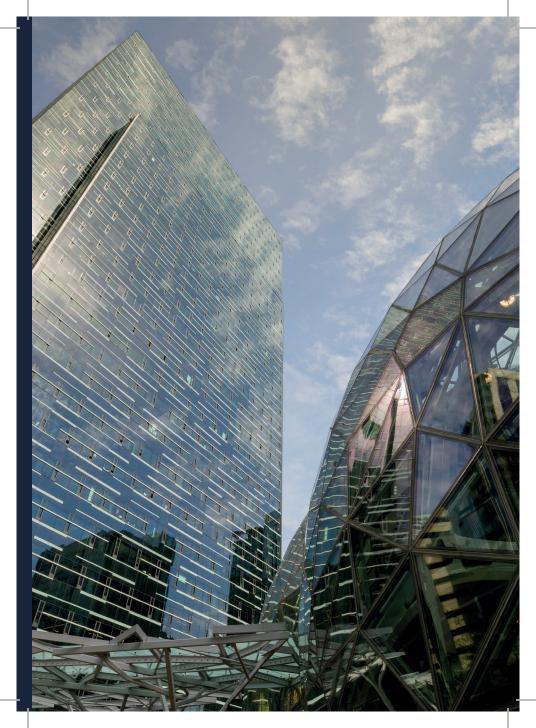
#### Alexa Prize

Compete with researchers from around the world seeking to advance the start-of-the art in open domain dialogue systems. Learn more at: developer.amazon.com/alexaprize

#### **AWS Educate**

Amazon's global initiative to provide both students and educators with the resources needed to accelerate cloud-related learning. Learn more at: aws.amazon.com/education/awseducate/





## **Amazon Research Awards**

The Amazon Research Awards (ARA) program offers awards of up to \$80,000 to faculty members at academic institutions worldwide.

You can learn more at ara.amazon-ml.com.

#### Areas of research include:

- Computer vision
- Fairness in artificial intelligence
- Knowledge management and data quality
- Machine learning algorithms and theory
- Natural language processing
- Online advertising
- Operations research and optimization
- Personalization
- Robotics
- Search and information retrieval
- Security, privacy and abuse prevention







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