

# Introduction to NLP & Deep Learning

- Instructor & TA intros
- Course logistics
- Course overview (30 min)
- Math refresher (100 min)
  - Linear algebra
  - Probability theory
  - Neural networks
- Lab (30 min):
  - Setup python3 environment
  - Setup Github
  - Bash tutorial (as-needed)

# Chris Larson, Instructor

## Education:



**B.A. Physics**  
**Coe College**  
**Cedar Rapids, IA**



**Ph.D. Mechanical Engineering**  
**Major field: Theoretical & Applied Mechanics**  
**Minor field: Computer Science**  
**Cornell University**  
**Ithaca, NY**

## Interests:

**Statistical machine learning**

**Natural Language Processing**

**Black box optimization**

**Robotics & human computer interaction**

**Stretchable electronics**

**Modeling physical systems**

- Fracture mechanisms in brittle solids
- Finite deformation

**Software Engineering**

- Python, C++
- ML infrastructure
- Distributed systems



**Lead Machine Learning Engineer**

**StormForge**

Apr 2020 - Present · 1 year 5 months

Washington, District of Columbia, United States



**Adjunct Professor**

**Georgetown University**

Jul 2021 - Present · 2 months

Washington, District of Columbia, United States

Teaching graduate level courses in machine learning



**Capital One**

2 years 3 months

• **Manager, Machine Learning**

Jun 2019 - Feb 2020 · 9 months

Washington, District of Columbia, United States

• **Machine Learning Software Engineer**

Dec 2017 - Jun 2019 · 1 year 7 months

Washington, District of Columbia, United States



**PhD Candidate**

**Cornell University**

Aug 2013 - May 2017 · 3 years 10 months

Ithaca, New York Area



**Corning Incorporated**

Oct 2011 - Aug 2013 · 1 year 11 months

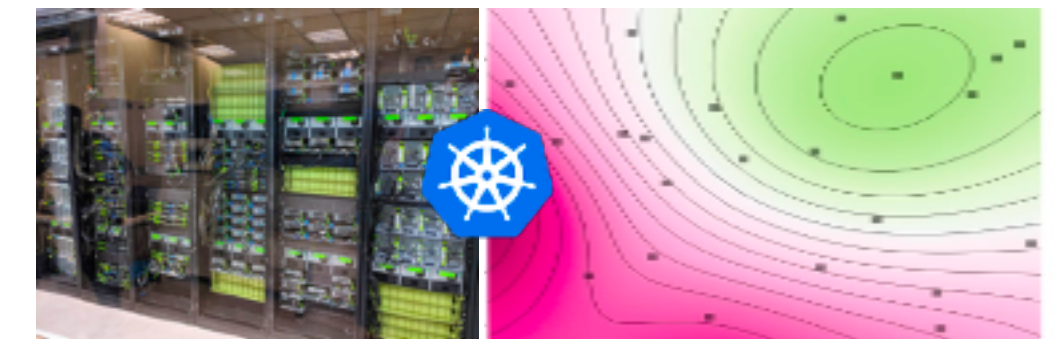
Corning, NY



**United Space Alliance**

Feb 2009 - Apr 2011 · 2 years 3 months

Kennedy Space Center, FL



**\$70M raised**

