Mikayla Timm

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SKILLS

Experienced in researching, developing, and applying **machine learning** (ML), **computer vision**, and **natural language processing** (NLP) techniques for solving problems in research and industry. Proficient with **PyTorch**, **Python**, **Java**, **C**, **UNIX**, **AWS EC2**, and **Git**. Two computer vision **publications** and presentations in **CVPR** workshops and two **applied ML** publications. Activist for **diversity** in computing.

EXPERIENCE

University of Massachusetts Amherst, Amherst, MA — *Graduate Research Assistant*

SEPTEMBER 2017 - PRESENT

- Researching **computer vision** approaches for **fine-grained** recognition and **vision + language**.
- Investigating **deep learning** models for classifying **attributes** of textures, generating **natural language** descriptions of texture images, and **image retrieval** from natural language.
- Collected and refined two novel **vision** and **language datasets** using Amazon Mechanical Turk.

Pinterest, Inc., San Francisco, CA — *Machine Learning Research Intern, Visual Search*

MAY 2019 - AUGUST 2019

- **Trained** and **evaluated** new and existing vision models for **fashion image retrieval** through image embeddings conditioned on **specific attributes** (color, pattern, fabric, gender).
- Implemented and pushed a **data pipeline** to production for processing and visualizing new data.
- Utilized AWS EC2 P3 instances to train **distributed deep models** in the **cloud** on multiple GPUs.

MIT Lincoln Laboratory, Lexington, MA — *NLP Summer Research Intern*

JUNE 2017 - AUGUST 2017

- Researched **NLP** techniques for generating **word embeddings** on inherently **multilingual data**.
- Designed a **pipeline** for **preprocessing** multilingual text corpora, **training** new embeddings, performing intrinsic **evaluations**, and **visualizing** embeddings with **dimensionality reduction**.

University of West Florida, Pensacola, FL — *Undergraduate Research Scholar*

MAY 2016 - MAY 2017

- Applied ML to **classify biometric data** obtained from simulated wearable device **cyber attacks**.
- Implemented **supervised learning** algorithms to predict outcomes of animals in shelters.

University of Massachusetts Amherst, Amherst, MA — *REU Summer Researcher*

MAY 2015 - AUGUST 2015

- Developed a **system** for **labeling**, **training**, and **classifying animals** in camera trap images.
- Automated the **identification** of **individual jaguars** in images using **computer vision**.

EDUCATION

University of Massachusetts Amherst, Amherst, MA — *MS in Computer Science*

SEPTEMBER 2017 - EXPECTED DECEMBER 2019 | **GPA: 3.95**

University of West Florida, Pensacola, FL — *BS in Computer Science, Math minor*

AUGUST 2014 - MAY 2017 | **GPA: 3.99**

HONORS AND AWARDS

NSF GRFP Honorable Mention. **CVPR** Women in Computer Vision Research Travel Grant. **CRA-W** Grad Cohort Workshop Award. **UMass CICS** Edward Riseman and Allen Hanson Scholarship. **Grace Hopper Celebration of Women in Computing** Scholar. UWF **Outstanding Undergraduate Student** in Comp Sci. UWF **Best Student Research Project** in Comp Sci. **1st Place** in **ACM ICPC** Southeast Division 2.