Summer Internships in Machine Learning for Language Processing for Graduates and Undergraduates

APPLICATION DEADLINE: Monday, April 1, 2019
Acceptance decisions will be made on a rolling basis.

We are looking for outstanding undergraduate and graduate students for summer internships in applied machine learning. The workshop is a good opportunity for undergraduates to obtain research experience and for graduate students to pursue challenging technical problems in a collaborative environment. Previous workshops have resulted in fruitful collaborations beyond the workshop itself and academic publications at top international conferences.

The theme of this year’s SCALE is automatically extracting structured information (e.g. people, organizations, locations, etc.) from unstructured text and, in particular, dealing with the challenges that emerge when labeled training data is not readily available. This problem is known as named-entity recognition and more broadly falls under the scope natural language processing.

Some example technical problems in the scope of the workshop:

- Fast and accurate structured prediction with deep neural models
- Developing models that are robust to errors in the training data
- Transferring language models trained on unlabeled text to target domains
- Using differentiable caches for “one-shot” learning from user feedback
- Semi-supervised training from partially labeled data
- Multilingual training to alleviate sparsity in any one language
- Identifying and exploiting incidental sources of training data

Experience with machine learning software packages, e.g. TensorFlow or PyTorch, is a plus but not required.

DATES: May 28 – August 9, 2019 (10 weeks)
LOCATION: Johns Hopkins University, Baltimore, Maryland

You can find information on our past workshops at: https://hltcoe.jhu.edu/research/scale/
About Us
The HLTCOE is an independent research center within Johns Hopkins University and located a short walk (or shuttle ride) away from the Homewood Campus. We work closely with the Center for Language and Speech Processing (CLSP), the Department of Computer Science, Electrical and Computer Engineering, and Applied Math and Statistics.

The HLTCOE GRID computing cluster consists of over 1500 CPU cores, 15 TB of RAM and 700 TB of storage. Additionally, we have over 170 GPUs for machine learning research including a NVIDIA DGX-1. All nodes are interconnected by 40 Gbe network.

Salary
These are (well) paid internships! Housing and transportation costs are covered and there will be catered meals during the workshop.
Application requirements

- Resume / CV
- A letter of recommendation. For graduate students, this should be from your advisor. For undergraduates, this may be an undergraduate research mentor, a supervisor from an internship, or a professor you took a relevant class with.

**We encourage you to apply early by submitting your CV. The referral may be sent later.**

Where to Apply
Please forward your CV and note of recommendation to: scale-apply@lists.johnshopkins.edu

Citizenship
Applicants must be US citizens.

For questions, send email to scale-apply@lists.johnshopkins.edu