Binh Vu

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Updated: October 1, 2019
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RESEARCH INTERESTS

Machine Learning, Semantic Web, Knowledge Graph Construction

EDUCATION

- **Ph.D. Student in Computer Science** — Aug 2016 - Present
  University of Southern California, Computer Science Department, Los Angeles, CA
  Advisor: Professor Craig Knoblock

- **Bachelor of Engineering in Computer Science** — Aug 2010 - Jan 2015
  HCMC University of Technology, Ho Chi Minh, Vietnam
  Thesis: *Wikipedia-based Entity Disambiguation using Deep Learning*, advisor Professor Tru Cao

RESEARCH EXPERIENCE

- **University of Southern California, Information Sciences Institute**, Marina del Rey, CA — Aug 2016 - Present
  Graduate Research Assistant, *Center on Knowledge Graph*
    - **Learning Semantic Models of Data Sources** — Oct 2017 - Present
      Learning semantic models that describe structured data sources using ontologies. The semantic models are used to automatically publish data to knowledge graphs.
    - **Identifying potential company hardware/software vulnerabilities** — Oct 2016 - Sep 2017
      Auto-crawling online sources to retrieve expertise of employees of a company, then predicting the software and hardware used in the company. A list of vulnerabilities is obtained by linking the software and hardware to the CVE database.

- **Rakuten Inc.**, Tokyo, Japan — Jun 2015 - May 2016
  Software Engineer, *Big Data Department*
    - **Fraud Detection in ID Hijacking and Payment**: Developed a near real-time streaming system that analyses time-series data and generates warnings when attacks happen

- **HCMC University of Technology**, Ho Chi Minh, Vietnam — Jun 2014 - Dec 2015
  Undergraduate Research Assistant, *Computer Science Department*
    - **Wikipedia-based Entity Disambiguation using Deep Learning**: Using autoencoders to extract latent features of entities in Wikipedia articles for the name entity disambiguation problem

KEY HORNORS

ISI Distinguished Top-Off Fellowship	April 2016
Vietnam Education Foundation Fellowship to pursue Ph.D. degree in the U.S	2016
Outstanding Honor Student Award	2011 - 2014

SELECTED PUBLICATIONS

- **Binh Vu**, Craig Knoblock, and Jay Pujara. 2019. *Learning Semantic Models of Data Sources Using Probabilistic Graphical Models.* In The World Wide Web Conference, pp. 1944-1953.

- **Binh Vu**, Jay Pujara, and Craig Knoblock. 2019. *D-REPR: A Language for Describing and Mapping Diversely-Structured Data Sources to RDF.* In The Tenth International Conference on Knowledge Capture (K-CAP).

TECHNICAL SKILLS

- **Languages**: Python, Rust, Java, Javascript (Full-stack Web Developer)

- **Technologies**: Pytorch, Tensorflow, Docker, ElasticSearch, Databases (MySQL, Postgres, Redis, Cassandra), Jenkins, Travis, etc.

- **Operating Systems**: Linux, MacOS