

Wenjuan Han

<http://hanwenjuan.com>

hanwj@shanghaitech.edu.cn | (+86)15221317971

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)

VISITING STUDENT

May, 2019 to NOW

SHANGHAITECH UNIVERSITY

DS IN COMPUTER SCIENCE

Joint Supervision of Shanghai Institute of Microsystem

And Information Technology

Grad. Expected January, 2020

Cum. GPA: 3.51 / 4.0

NANJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

BS IN OPTICAL INFORMATION

SCIENCE AND TECHNOLOGY

Grad. July 2014

Cum. GPA: 3.44 / 4.0

LINKS

Github:// [WinnieHAN](#)

LinkedIn:// [wenjuan-han](#)

Personal Website:// [hanwenjuan](#)

REFEREES

Kewei Tu (supervisor)

tukw@shanghaitech.edu.cn

Shenghua Gao

gaoshh@shanghaitech.edu.cn

AVAILABILITY

January, 2019

COURSEWORK

GRADUATE

Artificial Intelligence

Deep Learning

Computer Graphics

Computer Vision

Mobile Robotics

Compressive Sensing

UNDERGRADUATE

Probability and Stochastic Processes

Software Design

PUBLICATIONS

ENHANCING UNSUPERVISED GENERATIVE DEPENDENCY PARSER WITH CONTEXTUAL INFORMATION

Wenjuan Han, Yong Jiang, Kewei Tu | **ACL 2019**

Proposed an autoencoder framework that combines generative and discriminative approaches in order to tackle the limitation of unrealistic conditional independence assumption often assumed in unsupervised dependency parsing

DEPENDENCY GRAMMAR INDUCTION WITH NEURAL LEXICALIZATION AND BIG TRAINING DATA

Wenjuan Han, Yong Jiang, Kewei Tu | **EMNLP 2017**

Conducted a systematic study regarding the impact of the degree of lexicalization and the training data size on the accuracy of grammar induction approaches

COMBINING GENERATIVE AND DISCRIMINATIVE APPROACHES TO UNSUPERVISED DEPENDENCY PARSING VIA DUAL DECOMPOSITION

Yong Jiang, Wenjuan Han, Kewei Tu | **EMNLP 2017**

Proposed a new learning strategy that can learn a generative model and a discriminative model jointly based on the dual decomposition method

UNSUPERVISED NEURAL DEPENDENCY PARSING

Yong Jiang, Wenjuan Han, Kewei Tu | **EMNLP 2016**

Proposed the first neural probabilistic model to unsupervised dependency parsing

LATENT VARIABLE AUTOENCODER

Wenjuan Han, Ge Wang, and Kewei Tu | **IEEE Access 2019** volume 7, issue 1, page 48514-48523,

Applied the proposed model at ACL2019 for two application (the perceptual grouping task and the POS induction task) to verify the flexibility of the autoencoder framework. The flexibility of our framework allows us to apply it to various scenarios where the explicit inference of hidden variables is desired

LEXICALIZED NEURAL UNSUPERVISED DEPENDENCY PARSING

Wenjuan Han, Yong Jiang, Kewei Tu | **NeuroComputing 2019**

Combine the dependency parsing with the rich nonlinear featurization of neural network approaches and lexicalized features

OPTICAL FIBER ENERGY TRANSMISSION SYSTEM INTERLOCKING PROTECTION DEVICE

Publication number: CN104009451A | **PATENT 2017**

RESEARCH INTERESTS

My research interest is in natural language processing and machine learning. My current research focuses on the study of probabilistic/neural models and follows two researching paths: (1) grammar-based representation, inference, and unsupervised learning; and (2) the application of unsupervised learning approaches with hidden variables in a variety of artificial intelligence areas including grammar induction, POS induction and perceptual grouping.

Wenjuan Han

<http://hanwenjuan.com>

hanwj@shanghaitech.edu.cn | (+86)15221317971

SKILLS

PROGRAMMING

Advanced:

Python • Java • Pytorch

Intermediate:

Keras • Tensorflow • \LaTeX

Familiar:

Shell • C • C++

EXPERIENCE

REVIEWER ACL 2019

REVIEWER INLG 2019

REVIEWER IEEE ACCESS

TA CS281 COURSE | ARTIFICIAL INTELLIGENCE

TA SUMMER COURSE | WEB TECHNOLOGY

PRESIDENT MACHINE LEARNING READING CLUB

AWARDS

2015-2017 Learning Scholarship

2015-2017 Excellent Student

2017 3th Place

China Post-Graduate Mathematical Contest in Modeling

2015 Outstanding Volunteer Award

ShanghaiTech Symposium on Data Science