Research Interests
My key research focus is in the field of Natural Language Processing (NLP) for social media analysis, language modeling, information extraction and data analysis. I collaborated with psychologists and computational linguists for user-based language modeling to obtain higher accuracies of various NLP tasks such as sentimental analysis, political stance detection, or sarcasm detection. I especially adapt discourse relation parsing to social media to detect which text spans contain key information for targeted tasks such as opinions or reasons for sentiment of reviews and a political stance.

Education

STONY BROOK UNIVERSITY, STONY BROOK, NY
Doctor of Philosophy in Computer Science, GPA – 3.89/4.00
AUG 2015 – PRESENT

STONY BROOK UNIVERSITY, STONY BROOK, NY
Summa Cum Laude, Honors Program B.S Computer Science, GPA – 3.93/4.00
AUG 2013 – MAY 2015

AJOU UNIVERSITY, SUWON, SOUTH KOREA
B.E Computer Engineering, GPA – 4.36/4.50 (Major GPA – 4.43/4.50)
MAR 2009 – AUG 2013

Publication
Recognizing Counterfactual Thinking in Social Media Texts. Youngseo Son, Anneke Buffone, Anthony Janocko, Allegra Larche, Joseph Raso, Kevin Zembroski, H Andrew Schwartz, Lyle Ungar. In ACL 2017

Human Centered NLP with User-Factor Adaptation. Veronica E. Lynn, Youngseo Son, Vivek Kulkarni, Niranjan Balasubramanian, H. Andrew Schwartz. In EMNLP 2017

Capturing the Human Nuances of Optimism using Discourse Relations and Explanatory Style Recognition. Youngseo Son, Nipun Bayas, H Andrew Schwartz. In MASC 2017

Health Prediction based on Optimistic Explanatory Styles in Social Media. Youngseo Son, Laura Smith, H Andrew Schwartz. In MASC 2016

Predicting Users’ Features from Their Relationships with Other Users. Youngseo Son, Yanhong Liu. In Stony Brook URECA 2015

Research / Work Experiences / Projects

Personality Analysis based on the Syntactic Structure of Social Media Messages
(May in collaboration with the University of Pennsylvania)
- Leading the project with help of Prof. Ungar and and Anneke Buffone of the World Well-Being Project
- Analyzing correlations between syntactic structures of Facebook Status updates and profile information, personality, socio-economic statistics of users
- Worked as a Summer Intern Researcher in the Positive Psychology Center of the University of Pennsylvania

Health Prediction based on the Explanatory Style Analysis of Social Media
(Project in collaboration with the University of Pennsylvania and Prof. Schwartz)
- Accepted as a poster of Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL 2016)
- Using state-of-the-art discourse dependency parsers such as RST parsers or PDTB parsers for distracting discourse relations from messages collected from Facebook
- Analyzing Facebook status updates for health predictions of the users
Privacy Policy Language Modeling using Prolog  
(Senior Honors Research Project under Advisor Professor Y. Annie Liu & Logic Programming Group of Stony Brook)
- Facebook privacy policy translation for Object-Oriented Modeling and XSB, Flora for the Relational Modeling
- Creation of automatic policy conflict detector aiming to prevent discrepancies between Facebook privacy policy and the terms of use of Third-Party partners

User Profile Prediction based on Relationships in Social Networks  
(URECA 2014 (Undergraduate Research & Creative Activities) Stony Brook University)
- Received the URECA stipend to conduct research during summer 2014
- Users profile information prediction from their relationships with other users in Google+, Facebook, and Twitter dataset from SNAP (Stanford Network Analysis Project)
- Outlier Detection to social network relationships with Local Outline Score from “Oddball”
- Published in Stony Brook URECA Collected Abstracts and made a presentation for the Celebration of URECA Symposium

City Scape (Mhacks3 2014)  
- Implemented Social network website for sharing local area information
- Implemented the web site with Django, HTML, CSS, Javascript in Linux, and designed it with Photoshop CS6

Office Automation System  
(Course Team Project from System Programming, Ajou University)
- Efficiently distributed the electric power and customized security for offices
- HBE-SM2-P320 Embedded Board, Linux server, and Windows Client (MFC)

Dassault Systemes Korea Intern Software Engineer Internship  
- Development of Product Lifecycle Management (PLM) Web Application (ENOVIA)
- Worked on updating PLM chart display and data visualization functions with PLM Development senior software engineers and sales team members

Korean Augmentation to the US Army (Korean Army Sergeant)  
- Worked as an Information Technology Specialist
- Worked with 2nd Infantry Division 8th Army of the United States deployed to South Korea
- Managed and did troubleshooting on networks, computers, peripheral devices, and online portal of the battalion

Teaching Experience / Activities

Stony Brook University Computer Science TA  
- Teaching Assistance for Big Data Analytics, Senior Software Engineering Project, Computer Science III (Java Programming), Advanced Game Programming, and Computer Music

Elementary School Science Lab Teacher (Graduate Student Volunteers)  
- Give special topic science labs to the fifth graders of the Nathaniel Woodhull elementary school

Stony Brook Computing Society  
- Participated in Hackathon competitions
- Participated in computer science related presentation and seminars

Skills
- Java, Python, MATLAB, C, C++, MFC
- Web Development (Javascript, JSP, XML, HTML, CSS, MySQL, Apache Tomcat)
- Versioning (SVN, GIT)
- Linux systems (Ubuntu 14.04), Mac OSX, and Windows
- Shell Scripts (Bash, Windows batch)
- Documentation (Latex, MS Offices)
| Award Description                                                                 | Date       |
|----------------------------------------------------------------------------------|------------|
| Special CS Department Chair Fellowship                                          | AUG 2015   |
| Stony Brook University Computer Science Award of Honor                          | MAY 2015   |
| Stony Brook University URECA Stipend                                           | SUMMER 2014|
| Stony Brook University Outstanding Academic Achievement Awards                   | FALL 2013 - SPRING 2014 |
| Stony Brook University Dean’s List Nomination                                   | FALL 2013 - SPRING 2014 |
| Ajou University Superior Academic Performance Scholarship                         | FALL 2009 - SPRING 2013 |
| US Army Best Korean Augmentation to the United States Army (KATUSA) of 2012      | MAY 2012   |
| US Army Best Warrior 2012                                                         | APR 2012   |