2024 N Shannon Dr Apt # 7

Fayetteville, Arkansas 72703

# Kevin Labille

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Nationality : French

## Dissertation

**Title**: Automatically Detecting Sentiment Shift Through Event Detection
**Advisor**: Dr. Susan Gauch

## Education

**Ph.D Candidate in Computer Science** — Fayetteville, Arkansas, USA

*Focus on Text Mining/NLP - GPA: 3.6* — *Jan. 2014 - Aug. 2019*

**Master of Science in Computer Science** — Dijon, France

*Focus on Network security and Quality of Service - GPA 3.5* — *Sep. 2010 - 2013*

**Bachelor of Science in Computer Science** — Dijon, France

*Focus on Software engineering - GPA 3.5* — *Sep. 2008 - Jun. 2010*

## Research and Teaching Experience

**Research Assistant at University of Arkansas** — Fayetteville, Arkansas, USA

*May. 2017 - Dec. 2018*

Researched and investigated sentiment analysis in Twitter data

Researched and investigated sentiment quantification through multivariate SVM for Twitter data

Compared and examined generic sentiment lexicons versus domain-specific lexicons and their effectiveness in sentiment analysis

*Jan. 2015 - Aug. 2015*

Researched and investigated sentiment analysis in Amazon data

Explored statistical and information theoretic approaches for evaluating word sentiments

*Jan. 2014 - Aug. 2014*

Implemented and Evaluated a conceptual impact-based recommender system for CiteSeerX digital library for academic paper recommendations

**Teaching Assistant at University of Arkansas** — Fayetteville, Arkansas, USA

*Jan. 2019 - Aug. 2019*

Programming Foundations I: Taught weekly labs, designed course materials including labs and homeworks, held office hours, graded homeworks and exams

*Aug. 2016 - May. 2017*

Programming Paradigms: Held office hours, graded homeworks and exams

*Jan. 2016 - May. 2016*

Mobile Programming: Held office hours and graded homeworks

*Aug. 2015 - Dec. 2015*

Programming Paradigms: Held office hours, graded homeworks and exams

*Aug. 2014 - Dec. 2014*

Mobile Programming: Held office hours and graded homeworks

**Research Internship at NTUST** — Taipei, Taiwan

*Apr. 2012 - Jul. 2012* — *Low Power System Design Laboratory (LPS)*

Designed and implemented an interactive gesture-controlled interface for automotive/in-vehicle infotainment systems

**Research Internship at LE2I** Dijon, France

*Apr. 2009 - Jun. 2009*
> Developed semantic qualification tools used to check the exactness of RDF graphs using Model Checking

## Publications

- "Optimizing Statistical Distance Measures in Multivariate SVM for Sentiment Quantification," **Kevin Labille** and Susan Gauch, 2019. *In preparation*

- "Identifying Fake News through Emotion Analysis," Anshuman Nandy, **Kevin Labille**, and Susan Gauch, 2019.*In preparation*

- "Lexicon-based Sentiment Analysis for Stock Movement Prediction," Zane Turner, **Kevin Labille**, and Susan Gauch, *2nd Workshop on Economics and Natural Language Processing (ECONLP 2019)*, Hong Kong, China, November 3-4, 2019. *In review*

- "Improving Sentiment Analysis through Domain-Specific Lexicons," **Kevin Labille** and Susan Gauch, 2019. *ACM Transactions on Information Systems and Technology*, 2019 *In review*.

- "Semantic Distance Spreading Across Entities in Linked Open Data," Sultan Alfarhood, Susan Gauch, and **Kevin Labille**, *Informaton*, Vol. 10, No. 1, 2019, DOI:10.3390/info10010015, 15 pages.

- "Creating domain specific sentiment lexicons via text mining," **Kevin Labille**, Susan Gauch, and Sultan Alfarhood, *6th KDD Workshop on Issues of Sentiment Discovery and Opinion Mining (WISDOM 2017)*, Halifax, Nova Scotia, Canada, August 14, 2017, 8 pages.

- "Employing Link Differentiation in Linked Data Semantic Distance," Sultan Alfarhood, Susan Gauch, and **Kevin Labille**, *International Conference on Knowledge Engineering and the Semantic Web (KESW 2017)*, Szezecin, Poland, November 8-10, 2017, 175-191.

- "Text-Mining for Word Sentiment Detection," **Kevin Labille**, Susan Gauch, and Sultan Alfarhood, In *Communications in Computer and Information Science*, ed. Ana Fred et al., Springer, 2019. DOI:10.1007/978-3-319-99701-8_7, 149-170. **Invited Book Chapter**.

- "PLDSD: Propagated Linked Data Semantic Distance," Sultan Alfarhood, **Kevin Labille**, and Susan Gauch, *26th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE) - Web2Touch Track: Semantic Technologies in Smart Information Sharing and Web Collaboration (IEEE WETICE 2017)*, Poznan, Poland, June 21-23, 2017, 278-283.

- "Estimating Sentiment via probabilities and Information Theory," **Kevin Labille**, Sultan Alfarhood, and Susan Gauch, *8th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2016)*, Porto, Portugal, November 9-11, 2016, 121-129. **Best Paper Finalist**.

- "Incorporating popularity in a personalized news recommender system," Nirmal Jonnalagedda, Susan Gauch, **Kevin Labille**, and Sultan Alfarhood, *PeerJ Computer Science*, 2: e63 https://doi.org/10.7717/peerj-cs.63 , June, 2016.

- "Conceptual Impact-Based Recommender System for CiteSeerX," **Kevin Labille**, Susan Gauch, and Ann Smittu, *2nd Workshop on New Trends in Content-Based Recommender Systems (CBRecSys), associated with 9th ACM Conference on Recommender Systems (RecSys 2015)*, Vienna, Austria, September 16-20, 2015, 50-53.

- "Intelligent applications design in automotive infortainment systems," Hao-Chan Ting, Shih-Sheng Chen, **Kevin Labille**, and Shanq-Jang Ruan, *2012 IEEE Asia Pacific Conference on Circuits and Systems*, pp. 376-379. IEEE, 2012.

## Reviews and Peer Reviews

- Recent Patents on Computer Science

- International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (KDIR 2019)

- International Conference on Information, Process, and Knowledge Management (eKNOW 2019)

- International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (KDIR 2018)

- IEEE International Conference on High Performance Computing, Data, and Analytics (HiPC 2018)

- International Conference on Information, Process, and Knowledge Management (eKNOW 2018)

- IEEE/WIC/ACM International Conference on Web Intelligence (WI 2018)

- IEEE/WIC/ACM International Conference on Web Intelligence (WI 2017)

## Other Academic Experience

**Mentoring and Supervising**
I mentored and guided several MS students and undergraduate honors students on conducting research and writing academic papers, and I supervised several interns visiting students on implementing academic projects and conducting research

**Writing**
I assisted in writing a grant proposal for a NSF Core program

## Leadership and Involvement

**theTurtleRoom (http://theturtleroom.com):**
Educational Resource Developer and Staff Writer
Developer of Digital Chelonian Log (http://dcl.theturtleroom.com)

**African Chelonian Institute (http://africanchelonian.org):**
Communications Manager and Staff Writer

**Special Olympics World Games 2015:**
Delegation Liaison for team Haiti: Provide 24 hours operational and language support (interpretation), assist with liaising, procedures, daily planning and schedule, issue resolution, and administrative support.

**University of Arkansas:**
Cross Cultural Mentor: assist new international students in adjusting academically, culturally and socially to the United States and the University of Arkansas
Summer Camps Instructor
Internship coordinator and supervisor with the Computer Science department
Mentoring of several honor students, freshman students, and high school students