

Christan GRANT, Ph.D.

Assistant Professor · University of Oklahoma

Databases, Text Analytics, and Interactive Data Mining · christangrant.com

PERSONAL DATA

PLACE AND DATE OF BIRTH: Miami, Florida | 17 April 1985
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EDUCATION

AUGUST 2015 Ph.D. in COMPUTER SCIENCE, **University of Florida**, Gainesville
Dissertation: *Query-Driven Text Analytics for Knowledge Extraction, Resolution, and Inference*
Advisors: Daisy Zhe WANG and Joseph N WILSON

MAY 2008 B.S. in COMPUTER ENGINEERING, **University of Florida**, Gainesville

APPOINTMENTS

<i>Current</i>	ASSISTANT PROFESSOR at UNIVERSITY OF OKLAHOMA
AUG 2015	<i>School of Computer Science, Norman, Oklahoma</i> Faculty Fellow, Dunham College

FUNDING

- [8] CLOUD PLATFORM EDUCATION GRANT, *Google Edu*, 2017, \$5,250 (PI 100%).
- [8] BROADENING PARTICIPATION IN DATA MINING, *Workshop*, 2017, \$30,000 (PI 100%).
- [7] FEDERAL AVIATION ADMINISTRATION, *Learner Data Management*, 2016-2018, \$147,500 (PI 100%)
- [6] MICROSOFT AZURE RESEARCH AWARD, *A Nautical Coastal Assistant*, 2016-2017, \$20,000 (PI 100%).
- [5] UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), *Developing Software and Database Application Related to Forage and Animal Management*, 2016-2021, \$90,000 (PI 100%).
- [4] ROBERT WOOD JOHNSON FOUNDATION, *Quantifying Representativeness and Quality of Twitter Data for Health Research*, 2016-2018, \$355,608 (15%).
- [3] ANDREW W. MELLON FOUNDATION, *Digital Latin Library*, 2015-2017, \$2,500,000 (< 1%).
- [2] WEATHER NEWS INTERNATIONAL, *The Coastal Assistant*, 2016-2017, \$100,000 (Co-PI 50%).
- [1] NATIONAL SCIENCE FOUNDATION, *RIDIR: Modernizing Political Event Data for Big Data Social Science Research*, 2015-2017, \$1,497,358 (< 1%).

PUBLICATIONS

Journals

- [J 5] Jared Bond, **Christan Grant**, Joshua Imbriani, Erik Holbrook. *A Framework for Interactive t-SNE Clustering*. To appear in the International Journal of Software Informatics (IJSI) special issue on Visual Analytics. 2017
- [J 3] Sean Goldberg, Daisy Zhe Wang, **Christan Grant**. *A Probabilistically Integrated System for Crowd-Assisted Text Labeling and Extraction*. ACM Journal of Data and Information Quality (JDIQ). 2017.

- [J 4] Kun Li, Xiaofeng Zhou, Daisy Zhe Wang, **Christan Grant**, Alin Dobra, Christopher Dudley. *In-Database Batch and Query-time Inference over Probabilistic Graphical Models using UDA-GIST*. The VLDB Journal (VLDBJ). 2016.
- [J 2] **Christan Grant**, Daisy Zhe Wang. *A Challenge for Long-term Knowledge Base Maintenance*. ACM Journal of Data and Information Quality (JDIQ). 2015.
- [J 1] Daisy Zhe Wang, Yang Chen, **Christan Earl Grant**, Kun Li. *Efficient In-Database Analytics with Graphical Models*. IEEE Data Engineering Bulletin 37(3). 2014.

Conferences

- [C 16] Chenguang Xu, Sarah M. Brown, **Christan Grant**. *Detecting Simpsons Paradox*. The 31st International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Melbourne, Florida. 2018.
- [C 15] Nina Cesare, **Christan Grant**, Elaine O. Nsoesie. *Estimating Obesity Prevalence By Age and Gender Using Social Media Data* The Annual Meeting for the Population Association of America (PAA). Denver, CO. 2018.
- [C 14] Andrew Halterman, **Christan Grant**, Jill A. Irvine, Yan Liang, Manar Landis. *Arabic Event Data: A New, Machine-Coded Dataset from Arabic Text* The Annual Meeting of the International Studies Association (ISA). San Francisco, CA. 2018.
- [C 13] Austin Graham, Yan Liang, Le Gruenwald, **Christan Grant**. *Formalizing Interruptible Algorithms for Human over-the-loop Analytics*. The IEEE International Workshop on Human-Machine Collaboration in BigData (HMDData 2017). Boston, Mass. 2017.
- [C 12] Yan Liang, Andy Halterman, Phanindra Jalla, Solaimani Mohiuddin, Manar Landis, Jill Irvine, **Christan Grant**. *Adaptive Scalable Pipelines for Political Event Data Generation*. The IEEE International Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Applications (BPOD 2017). Boston, Mass. 2017.
- [C 11] Nina Cesare, **Christan Grant**, Jared Hawkins, John S. Brownstein, Elaine O. Nsoesie. *Demographics in Social Media Data for Public Health Research: Does it matter?* Bloomberg Data for Good Exchange. New York, NY, USA. 2017
- [C 10] Stephen Smart, **Christan Grant**. *Towards Managing Complex Data Sharing Policies with the Min Mask Sketch*. IEEE 17th International Conference on Information Reuse and Integration (IRI). San Diego, CA, USA. 2017 *29.0%*
- [C 9] Erik Holbrook, **Christan Grant**, Gupreet Kaur, Jared Bond, Josh Imbriani, Elaine Nsoesie. *Tweet Geolocation Error Estimation*. Ninth International Conference on Geographic Information Science (GIScience). Montreal, Canada. 2016.
- [C 8] **Christan Grant**, Daisy Zhe Wang, Michael Wick. *Query-driven Sampling for Collective Entity Resolution*. IEEE 17th International Conference on Information Reuse and Integration (IRI). Pittsburgh, PA, USA. 2016 *25.6%*
- [C 7] **Christan Grant**, Clint Pazhayidam George, Virupaksha Kanjilal, Supriya Nirkhiwale, Daisy Zhe Wang, Joseph N Wilson. *A Topic-Based Search, Visualization and Exploration System*. The 28th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Hollywood, Florida. 2015.
- [C 6] Morteza ShahriariNia, **Christan Grant**, Daisy Zhe Wang, Milenko Petrovic. *Streaming Fact Extraction for Wikipedia Entities at Web-Scale*. The 27th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Pensacola Beach, Florida. 2014. *47%*
- [C 5] **Christan Grant**, Jordan Gumbs, Kun Li, Daisy Zhe Wang, George Chitouras. *MADden: Query-Driven Statistical Text Analytics*. In the Proceedings of the 21 st ACM International Conference on Information and Knowledge Management (CIKM 2012). Maui, Hawaii. October, 2012. *17%*
- [C 4] **Christan Grant**, Clint P. George, Joir-dan Gumbs, Joseph N. Wilson, and Peter J. Dobbins. *Morpheus: A Deep Web Question Answering System*. In Proceedings of the 12th International Conference on Information Integration and Web-based Applications & Services (iiWAS). New York, NY, USA, 2010. *30%*
- [C 3] **Christan Grant**, Tyrone Grandison, Alfredo Alba. *Enabling the Health Internet - Market-Friendly Information Extraction of Online Healthcare Sources*. The proceedings of the 13th World Congress on Medical and Health Informatics (MEDINFO) 2009. September 12-15, 2010. Cape Town, South Africa.

- [C 2] Tyrone Grandison, **Christan Grant**, Kun Liu, Varun Bhagwan, Tarun Thakur. *Leveraging Online Data To Deliver Better Decision Support For Personalized Chronic Disease Management*. American Medical Informatics Association (AMIA) 2009 Spring Congress. Orlando, Florida. May 28-30, 2009.
- [C 1] **Christan Grant**, Clint P. George, Chris Jenneisch, Joseph N. Wilson. *Online Topic Modeling for Real-Time Twitter Search*. In the Proceedings of the Twentieth Text REtrieval Conference (TREC 2011). Gaithersburg, Maryland. November 2011.

Workshop

- [W 7] Samuel Henly, Nina Cesare, Gaurav Tuli, Sheryl Kluber, Jared Hawkins, Quynh Nguyen, Aranka Anema, Adyasha Maharana, **Christan Grant**, John Brownstein, Elaine Nsoesie. *Disparities in digital reporting of illness: A demographic and socioeconomic assessment*. Workshop on Data and Algorithm Bias at the International Conference on Information and Knowledge Management. Singapore, Singapore. 2017.
- [W 6] Michael Crespin, **Christan Grant**. *50 Years of Native American Self Determination*. Polinformatics Workshop. Island Wood, WA, USA. 2017.
- [W 5] Jared Bond, **Christan Grant**, Joshua Imbriani, Erik Holbrook. *A Framework for Interactive t-SNE Clustering*. 2nd International Workshop on DATA mining meets Visual Analytics at big data era In Conjunction with CIKM 2016 (DAVA). Indianapolis, Indiana, USA. 2016.
- [W 4] **Christan Grant**, Daisy Zhe Wang. *Optimizing Sampling-based Entity Resolution over Streaming Documents*. The SIAM International Conference on Data Mining Workshop: Big Data and Stream Analytics. Vancouver, British Columbia, Canada. 2015.
- [W 3] Kun Li, **Christan Grant**, Daisy Zhe Wang, Sunny Khatri, George Chitouras. *GPText: Greenplum parallel statistical text analysis framework*. In the Proceedings of the Second Workshop on Data Analytics in the Cloud at SIGMOD (DANAC 2013). New York, New York, USA. June 2013. 56%
- [W 2] Daisy Zhe Wang, Yang Chen, Sean Goldberg, **Christan Grant** and Kun Li. *Automatic Knowledge Base Construction using Probabilistic Extraction, Deductive Reasoning, and Human Feedback*. In the Proceedings of the 2012 Joint Workshop on Automatic Knowledge Base Construction and Web-scale Knowledge Extraction (AKBC-WEKEX 2012). Montreal, Canada. Jun, 2012.
- [W 1] Pete Dobbins, Tiffany Dohzen, **Christan Grant**, Joachim Hammer, Malachi Jones, Dev Oliver, Mujde Pamuk, Jungmin Shin, Mike Stonebraker, *Morpheus 2.0: A Data Transformation Management System*. at the VLDB 2007 Third International Workshop on Database Interoperability. 2007.

Patents

- [P 1] Varun Bhagwan, Tyrone Grandison, **Christan Grant**, Bryan Hickerson, Kun Liu, Tarun Thakur. International Business Machines. *Health-e-Assistant: A System for Personalized Chronic Disease Management*. US 2011/0191114 A1.

WORK EXPERIENCE

SPRING 2014	Instructor at UNIVERSITY OF FLORIDA <i>Databases and Information Systems (CIS 4301)</i> Databases course to a class of 90 upper division students. Students learned SQL, Relational Model, triggers, and developed a temporary social media applications. http://www.cise.ufl.edu/class/cis4301sp14/ TECHNOLOGIES: PostgreSQL, Linux, JavaScript, PHP, Python, C++
FALL 2010 SPRING 2011	Teaching Assistant at UNIVERSITY OF FLORIDA <i>Introduction to Programming part I & II</i> Taught 12 hours/week discussion sections with 25 student each. Designed and developed solutions to course projects. TECHNOLOGIES: Java, Linux
JUNE-AUG 2008	Research Intern at IBM ALMADEN RESEARCH CENTER

	Research and prototype development for the Health-e-Assistant a personalized search engine for chronic diseases. TECHNOLOGIES: Perl, MySQL, Google Web Toolkit
SEPT-MAY 2009	Campus Ambassador at SUN MICROSYSTEMS Evangelized and Presented SUN's Open Source Technologies to Campus. TECHNOLOGIES: OpenSolaris, ZFS and NetBeans for Java.
MAY-AUG 2007	Software Engineering Intern at HARRIS COMMUNICATIONS RF Researched the new Jupiter 21 GPS protocol, designed and developed an application for testing and evaluation. Rochester, NY TECHNOLOGIES: Visual C++ 2008

SERVICE

2018	Chair for Doctoral Consortium	RICHARD TAPIA CONFERENCE
2018	General Chair	BROADENING PARTICIPATION IN DATA MINING (BPDM)
2017	National Science Foundation Review Panelist	
2017	Program Committee	BLACK IN AI
2017	OU McNair Advisory Board	RONALD E. MCNAIR PROGRAM
2017	Technical Program Committee	IEEE INTERNATIONAL CONFERENCE ON INFORMATION REUSE AND INTEGRATION (IRI)
2017	Travel Awards Co-Chair	INTERNATIONAL CONFERENCE ON INFORMATION AND KNOWLEDGE MANAGEMENT (CIKM)
2017	General Co-Chair	BROADENING PARTICIPATION IN DATA MINING (BPDM)
2017	Deputy Chair for Doctoral Consortium	RICHARD TAPIA CONFERENCE
2017	External Reviewer	ACM SYMPOSIUM OF APPLIED COMPUTING
2017	Organizing Committee	THE PIPELINE WORKSHOP: DIVERSIFYING THE HPC WORKFORCE
2016	Program Committee	BROADENING PARTICIPATION IN DATA MINING (BPDM)
2015	Reviewer	RICHARD TAPIA CONFERENCE
2014	Webmaster	INSURE HUB (NSF GRANT NO. 1344369)
2014	Webmaster	BROADENING PARTICIPATION IN DATA MINING (BPDM)
2013	External Reviewer	VLDB
2013	External Reviewer	VLDB PH.D. WORKSHOP
2012	College Recruiter	UF COLLEGE OF ENGINEERING
2012	External Reviewer	ACM CIKM POSTER TRACK
2012	External Reviewer	ACM SIGMOD DEMO TRACK
2012	External Reviewer	IEEE ICDE
2010-2015	Lead Usher	FIRST ASSEMBLY OF GOD
2010-2011	Mentor	RONALD MCNAIR PEER MENTOR
2010-2011	Graduate Student Representative	GRADUATE STUDENT ADVISORY COUNCIL (GSAC)
2010	Conference Planning Committee	SEAGEP ANNUAL CONFERENCE
2009-2010	Mentor	ALACHUA COUNTY - ACT SO
2007-2008	Founder	UNIVERSITY OF FLORIDA OPEN SOURCE USER GROUP
2006-2007	President	PROGRESSIVE BLACK MEN, INC.
2006-2007	National Online Image Coordinator	NATIONAL SOCIETY OF BLACK ENGINEERS (NSBE)
2006	Member Retention Facilitator	CHI ALPHA CHRISTIAN FELLOWSHIP
2004-2005	Vice President of Programs	NATIONAL SOCIETY OF BLACK ENGINEERS (NSBE)
2004-2005	Male Model Trainer	FACES MODELING TROUPE

HONORS

2016	Dunham College, Faculty Fellow
2016	OU CS Rising Star Award
2014	AAAI Broadening Participation in Artificial Intelligence Travel Grant

2014	ACM Richard Tapia Celebration of Diversity in Computing Travel Grant
2013	ACM Richard Tapia Celebration of Diversity in Computing Travel Grant
2013	Broadening Participation in Data Mining (BPDM) Travel Grant
2012	University of Florida, Comencement Honor Guard
2012	Broadening Participation in Data Mining Travel Grant
2011	IEEE Super Computing Travel Award
2010	National Science Foundation Graduate Research Fellowship
2009	ACM Richard Tapia Celebration of Diversity in Computing
2008	LSAMP Bridge to the Doctorate Fellowship
2009	University of Florida College of Engineering Diversity Award
2006	University Scholar
2004	Gator Intramural Team Champion (track)

EXTERNAL TALKS

Christan Grant. *Ongoing research at the University of Oklahoma Data Analytics Lab.* Univeristy of Florida, Data Science research Lab. Gainesville, Florida. September. 2017.

Christan Grant. *Query-Driven Sampling for Collective Entity Resolution.* Oklahoma State University Computer Science Department, Stillwater, Oklahoma. October 2015.

Christan Grant. *Streaming Fact Extraction for Wikipedia Entities at Web-Scale.* The 27th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Pensacola Beach, Florida. May 22, 2014.

Christan Grant, Dana Catalfamo, Mina-Elraheb Hanna, Jennifer Howell, Amanda Patrick, David Roueche. *Student Fellows: The Secrets to Their Success.* Graduate Student Grants and Fellowship Workshop. Gainesville, Florida. May 17, 2013.

Christan Grant. *Knowledge Base Acceleration @ TREC.* CUBISM Workshop. Florida Institute for Human Machine Cognition. Ocala, Florida. April 24, 2013.

Christan Grant. *Query-Driven Entity Resolution.* McKnight foundation conference. Tampa, Florida. 16 February 2013.

Christan Grant, Pierre St. Juste, Juan Sequeda, Shaun Gittens. *Facing the Challenges of Big Data: Tools, Techniques and Infrastructure.* Richard Tapia Celebration of Diversity in Computing Conference. Washington, D.C., 8 February 2013. Oral.

Christan Grant. *Query Driven Computation.* Richard Tapia Celebration of Diversity in Computing Conference. Doctoral Consortium. Washington, D.C., 7 February 2013. Oral.

Christan Grant. *Query-Driven Coreference.* Richard Tapia Celebration of Diversity in Computing Conference. Poster Session. Washington, D.C., 7 February 2013. Poster.

Christan Grant, et al. Student Panel of Fellowships Winners. Graduate Student Grants and Fellowship Workshop. June 1, 2012.

Christan Grant. *Developing a Powerful Personal Statement and Obtaining Letters of Recommendation.* Empowering Leadership Alliance - Mentoring. Webinar. 27 April 2011. <http://empoweringleadership.rice.edu/Content.aspx?id=2147484247>

Christan Grant. *Data Kindness on the Internet.* Richard Tapia Celebration of Diversity in Computing Conference. Fairmont Hotel, San Francisco, California. April 3-5, 2011.

Christan Grant, Brian Dammit, Adam Mecca. Student Panel of Fellowships Winners. Graduate Student Grants and Fellowship Workshop. May 14, 2010.

Christan Grant. 2009. *Why OpenSolaris?* Florida Linux Show 2009. Jacksonville, Florida. March 9, 2009.

Christan Grant. 2008. *Why Graduate School.* NSBE Undergraduate Student in Technical Research Forum. Gainesville, Florida. September 17, 2008.

TEACHING

SpringB '18	University of Oklahoma	Weapons of Math Destruction
Spring '18	University of Oklahoma	CS 5970 Text Analytics
Fall '17	University of Oklahoma	CS 3113 Introduction to Operating Systems
Spring '17	University of Oklahoma	CS 5970 Introduction to Text Analytics
Fall '16	University of Oklahoma	CS 3113 Introduction to Operating Systems

Spring '16 | University of Oklahoma
Spring '14 | University of Florida

| CS 5970 Text Analytics
| CIS 4301 Introduction to Databases