Chris Bryan

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Education

09/2012 – 07/2018 **Ph.D. in Computer Science, University of California, Davis**.
Dissertation: *Advanced Techniques and Cognitive Considerations for Explanatory Visualization and Data Storytelling.*
Committee: Kwan-Liu Ma (advisor), Zhou Yu, Michael Neff

08/2004 – 05/2008 **B.S. *cum laude* in Computer Science (Honors College), University of Arkansas, Fayetteville.** *Minors: Mathematics, Spanish*
Thesis: *Thesis title*
Advisor: Dr. Amy Apon (Clemson University)

Appointments and Prior Employment

08/2018 – *current* **Assistant Professor.** School of Computing, Informatics, and Decision Systems Engineering, Arizona State University (Tempe, AZ).

01/2018 – 05/2018 **Adjunct Professor.** Department of Computer Science, University of San Francisco (San Francisco, CA).

09/2012 – 07/2018 **Graduate Student Researcher.** Visualization & Interface Design Innovation (VIDi) Group, University of California, Davis (Davis, CA).

06/2017 – 09/2017 **Graduate Student Intern.** Center for Applied Scientific Computing (CASC), Lawrence Livermore National Laboratory (Livermore, CA).

06/2013 – 09/2016 **Graduate Student Intern.** Data Science at Scale (DSS) Group, Los Alamos National Laboratory (Los Alamos, NM).

11/2009 – 06/2012 **Programmer Analyst.** Integrated Capacity Solutions (ICS) Division, J.B. Hunt Transport and Logistics (Lowell, AR).

Research Publications

Peer-reviewed Journal Articles, Conference and Symposium Proceedings

1. Chandrasegaran, S., **Bryan**, **C.**, Shidara, H., Chuang, T.-Y., & Ma, K.-L. (2019). Talktraces: real-time capture and visualization of verbal content in meetings. In *Proceedings of acm chi conference on human factors in computing systems (chi 2019)*.

2. Wang, X., Chen, W., Chou, J.-K., **Bryan**, **C.**, Guan, H., Chen, W., … Ma, K.-L. (2019). Graphprotector: a visual interface for employing and assessing multiple privacy preserving graph algorithms. *IEEE transactions on visualization and computer graphics*, *25*(1), 193–203.

3. Chou, J.-K., **Bryan**, **C.**, Li, J., & Ma, K.-L. (2018). An empirical study on perceptually masking privacy in graph visualization. In *15th ieee symposium on visualization for cyber security (vizsec), 2018*.

4. Shi, Y., **Bryan**, **C.**, Bhamidipati, S., Zhao, Y., Zhang, Y., & Ma, K.-L. (2018). Meetingvis: visual narratives to assist in recalling meeting context and content. *IEEE transactions on visualization and computer graphics*, *24*(6), 1918–1929.

5. Xu, S., **Bryan**, **C.**, Li, J. K., Zhao, J., & Ma, K.-L. (2018). Chart constellations: effective chart summarization for collaborative and multi-user analyses. In *Computer graphics forum* (Vol. 37, *3*, pp. 75–86). Wiley Online Library.

6. **Bryan**, **C.**, Guterman, G., Ma, K.-L., Lewin, H., Larkin, D., Kim, J., … Farre, M. (2017). Synteny explorer: an interactive visualization application for teaching genome evolution. *IEEE transactions on visualization and computer graphics*, *23*(1), 711–720.

7. **Bryan**, **C.**, Ma, K.-L., & Woodring, J. (2017). Temporal summary images: an approach to narrative visualization via interactive annotation generation and placement. *IEEE transactions on visualization and computer graphics*, *23*(1), 511–520.

8. Chou, J.-K., **Bryan**, **C.**, & Ma, K.-L. (2017). Privacy preserving visualization for social network data with ontology information. In *2017 ieee pacific visualization symposium (pacificvis)* (pp. 11–20). IEEE.

9. Chu, J., **Bryan**, **C.**, Shih, M., Ferrer, L., & Ma, K.-L. (2017). Navigable videos for presenting scientific data on affordable head-mounted displays. In *Proceedings of the 8th acm on multimedia systems conference* (pp. 250–260). ACM.

10. **Bryan**, **C.**, Wu, X., Mniszewski, S., & Ma, K.-L. (2015). Integrating predictive analytics into a spatiotemporal epidemic simulation. In *2015 ieee conference on visual analytics science and technology (vast)* (pp. 17–24). IEEE.

11. Mniszewski, S. M., Manore, C., **Bryan**, **C.**, Del Valle, S. Y., & Roberts, D. (2014). Towards a hybrid agent-based model for mosquito borne disease. In *Proceedings of the 2014 summer simulation multiconference* (p. 10). Society for Computer Simulation International.

12. **Bryan**, **C.**, Ma, K.-L., & Fu, Y.-C. (2013). An interactive visualization interface for studying egocentric, categorical, contact diary datasets. In *Proceedings of the 2013 ieee/acm international conference on advances in social networks analysis and mining* (pp. 771–778). ACM.

Peer-reviewed Short Papers and Other

1. Shidara, H., **Bryan**, **C.**, Kwon, O.-H., & Ma, K.-L. (2018). North korea: real or paper tiger? In *Ieee pacificvis 2018 storytelling contest*.

2. **Bryan**, **C.**, Dasu, K., Divakarla, S., & Ma, K.-L. (2017). Summarizing the u.s. presidential election day 2016. In *Ieee pacificvis 2017 storytelling contest*.

3. **Bryan**, **C.**, Mniszewski, S., & Ma, K.-L. (2014). Integrating predictive visualization with the epidemic disease simulation system. In *Ieee vis 2014 workshop on visualization for predictive analytics*.

4. **Bryan**, **C.**, Emeneker, W., & Apon, A. (2008). A performance and productivity study using mpi, titanium, and fortress. In *Ieee international conference on high performance computing (hipc08) student symposium*.

Teaching Experience

Arizona State University

Fall 2019	CSE 578: Data Visualization	126 students
Spring 2019	CSE 310: Algorithms & Data Structures	128 students
Fall 2018	CSE 578: Data Visualization	128 students

University of San Francisco

Spring 2017	CS 212: Software Development	30 students	5.47/6

University of California, Davis

Spring 2016	ECS 163: Information Interfaces	52 students	4.1/5

External Service

Organizing Member

2020	PacificVis Storytelling Contest
2019	IEEE Symposium on Visualization for Cyber Security (VizSec)

Program Committee Member

2020	ACM International Conference on Supporting Group Work (GROUP)
2019 – 2020	IEEE Pacific Visualization Symposium (PacificVis)
2019	IEEE Visualization Conference (SciVis Short Papers Tract)
2019	International Conference on Urban Intelligence and Applications (ICUIA)
2018 – 2019	IEEE Symposium on Large Data Analysis and Visualization (LDAV)
2018 – 2019	IEEE International Conference On Big Data Service And Applications (BigDataService)
2018	International Symposium on Visual Computing (ISVC)

Major Journal and Conference Reviewing

2019	ACM Symposium on User Interface Software and Technology (UIST)
2017 – 2019	IEEE Visualization Conference (InfoVis, SciVis, VAST)
2017 – 2019	IEEE Pacific Visualization Symposium (PacificVis)
2017 – 2019	ACM Conference on Human Factors in Computing Systems (CHI)
2018 – 2019	ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)
2018	IEEE Transactions on Visualization and Computing (TVCG)

Proposal Review Service

2019	National Science Foundation

University and Department Service

2018 – 2019 **Graduate Admissions Committee**.
School of Computing, Informatics, and Decision Systems Engineering