

Justin F. Brunelle, Ph.D.

Chief Scientist, Software Engineering Innovation Center (The MITRE Corporation)
jbrunelle008@gmail.com; <http://www.justinfbunelle.com/>

EDUCATION

Old Dominion University, Computer Science, PhD, 2016
Old Dominion University, Computer Science, MS, 2010
Old Dominion University, Computer Science, BS, 2008

SHORT BIO

- Recognized and accomplished researcher and technical leader with current TS/SCI clearance and experience solving the government's toughest challenges through directed and internal research and development projects aligned with Federal Funded Research and Development Center missions
- Seeking a position focused on technology-driven research and development
- Research Interests: AI-driven Software Engineering, Government-focused Technology Innovation, Information Retrieval

WORK EXPERIENCE

Chief Scientist - The MITRE Corporation, Software Engineering Center (2010 - present)

- Responsible for internal and external research presence and quality. Set the technical strategy for the 500+ staff in the Software Engineering Innovation Center, including strategies for early career staff growth, technical career advancement, and research and capability development investments. Established a program on track to nearly double the S&T Output of MITRE Labs.
- Principal Investigator of multiple IR&D and government-directed research projects producing 20+ instances of IP. Primarily focused on web science, technology-focused government innovation, and other emerging technologies research supporting government sponsor missions.

Adjunct Assistant Professor - Old Dominion University (Aug. 2016 - Dec. 2019)

- Designed and taught graduate web programming and doctoral emerging technology courses

Web Science Research Assistant - WS-DL Group, ODU (Aug. 2010 - May 2016)

- Over 15 peer-reviewed publications in web sciences conferences and journals

Adjunct Instructor - Tidewater Community College (July 2008 - Aug. 2009)

- Designed and taught web development and modeling and simulation for game development

Lead Developer - iSTART (June 2003 - May 2010)

- Lead a team to develop web-based multi- and single-player serious game applications

PROFESSIONAL ACTIVITIES

BSA Eagle Scout (2003)

Advisory board, ODU Department of Computer Science (2019-present)

Program/Planning Committee Member for multiple conferences and journals (ongoing)

Frequent invited speaker at various technical and government events (ongoing)

Multiple recognition awards annually, including ODU Alumni Association's 40 Under 40 Award.

SELECTED PUBLICATIONS

- "Natural Language Processing Tools" Justin F. Brunelle and Chutima Boonthum-Denecke. *Cross-Disciplinary Advances in Applied Natural Language Processing: Issues and Approaches*. IGI Global, 2012. 9-23. Web. 7 Mar. 2012.
- Justin F. Brunelle, Daniel Frisk, Benjamin Mayer, Paula Randall, Awais Sheikh "Measuring the Impact of Innovation Activities in Government", *Defense Acquisition Research Journal*, October 2020, issue 94. (2nd place, Hirsch Competition.)
- Chris Glasz, Dr. Justin F. Brunelle, Dr. Scott Rosen, Dr. Nitin Naik, Dr. Samruddhi Thaker, Jacob Zimmer, Dr. Siggy Scott, Emily Escamilla, Amit Madan, Arun Sridharan, Doug Wendt, Michael Doyle, Colin Diggs, Jasper Phillips, William Macke, Paul Kirk, Michael Bartholf, Naveed Nekoo, Zach Robin, Paul Ursino. "Legacy Code Understanding in LLM Documentation Generation: Prospects and Limitations", *LLM4Code @ International Conference on Software Maintenance and Evolution*, 2025