

Roland A. DePratti, M.Sc.

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Roland DePratti
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66 Ridgewood Rd
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EDUCATION

2020 Graduate Student, Central Connecticut State University, Data Science
2008 M. Sc., Rensselaer Polytechnic Institute, Computer Science, CS Outstanding Student Award
1976 B.A., University of Connecticut, Psychology

EMPLOYMENT

2020 - Adjunct Professor, Math & CS Department, University of Richmond
2018 - 2019 Adjunct Professor, Computer Science Department, Central Connecticut State University
2011 - 2017 Adjunct Professor, Computer Science Department, Eastern Connecticut State University
2012 - 2015 Enterprise Data Architect and IT Senior Principal, Enterprise Architecture, Cigna (Retired)
1985 - 2012 Database Management Director, Enterprise Data Management, Cigna

PRIMARY RESEARCH INTERESTS

- Advanced Database Management Methods
- Data Architecture Patterns
- Big Data Processing
- Improved Pedagogic Methods

SELECTED INDUSTRY RESEARCH PROJECTS

1. DePratti, R., (2014). The Capabilities of NoSQL Databases
2. DePratti, R., (2009). Using IBM DB2 9 to Manage Large XML Documents in Claim Processing

SELECTED INDUSTRY LARGE IMPLEMENTATION PROJECTS

1. 2014 Data Architecture and Data Strategy for Customer Health Data Management
2. 2012 Data Architecture and Implementation of Incentive System
3. 2000 Performance Analysis and Implementation of Client Billing System
4. 1992 Implementation of Central Customer Eligibility Database and System.

SELECTED PROFESSIONAL MEMBERSHIPS

Association of Computing Machinery IEEE

SELECTED AWARDED GRANTS

1. Big Data Curriculum Development Grant **R.A. DePratti (Technical Lead)**, 2014. CSU-AAUP University Curriculum Development Grant. Funding Amount: \$2,500.
2. Big Data Curriculum Development Grant **R.A. DePratti (Technical Lead)**, 2015 NASA CT Space Grant. Funding Amount: \$15,000 (NASA \$7,500 – In-Kind \$7,500).
3. Hadoop Architecture Research, 2015. CSU-AAUP Faculty Development Grant. Funding Amount: \$1,000.
4. Scala Research, 2016. CSU-AAUP Faculty Development Grant. Funding Amount: \$350.
5. Developing Interactive Notebooks and Grading Systems for Data Science Foundational Courses **R.A. DePratti (Technical Lead)**, 2017. CSU-AAUP University Curriculum Development Grant. Funding Amount: \$2,093.
6. Training to Enhance Understanding of Cloud Computing Capabilities in Amazon Web Services, 2018. CSU-AAUP Faculty Development Grant. Funding Amount: \$720.

OTHER UNIVERSITY CONTRIBUTIONS

1. Development of a Foundation Grant History database that maintains all grants distributed by foundations over the last 4 years. Database is fed via automated feeds from IRS 990 forms available on AWS.
2. Worked to develop a partnership with a local employer that included arranging events that brought professionals to meet with the students, as well as recommended students for internships.

SELECTED PUBLICATIONS

1. DePratti, R., Master Thesis (2008). The Value of an RDBMS-Centric XML Referential Integrity System.
2. DePratti, R., Dancik, G., Tasneem, S., Challenges in Designing an Introductory Course in Big Data Programming, Journal of Computer Science in Colleges, Vol. 30, Issue 6, 2015, June.
3. Libis, C. and DePratti, R. Problems Section, School Science and Mathematics Journal. Volume 116, Issue 1, 2016 Jan.
4. DePratti, R., Dancik, G., Lucci, F., Sampson, R., The Development of an Introductory Course in Big Data Programming, The Journal of Computing Sciences in Colleges, Vol. 32, Issue 6, 2017, June.
5. Johnson, A., DePratti, R., Dancik, G.M. A prototype Cancer Publication Portal (CPP) for summarizing and accessing cancer genomic publications. 2018 American Association for Cancer Research Annual Meeting, Chicago, Illinois., USA (poster).
6. Davis, M., Dancik, G. and DePratti, R. Autograding. Interactive tools for learning R/Python: Preparation for statistics projects. Proceedings of the 30th Annual International Conference on Technology in Collegiate Mathematics, (to appear March 2019).
7. DePratti, R. Using Jupyter Notebooks in a Big Data Programming Course. Journal of Computer Science in Colleges, Vol. 34, Issue 6, 2019, April (poster).
8. DePratti, R. Jupyter Notebooks versus Textbooks in a Big Data Course. Journal of Computer Science in Colleges, Vol. 35, Issue 6, 2020, April.

IN-PROGRESS PUBLICATIONS/RESEARCH

1. DePratti, R. Formative Self-Assessments, Do They Improve Computer Science Learning

PRESENTATIONS

1. DePratti, R, Dancik, G, Lucci, F & Sampson, R, Development of an Introductory Big Data Programming and Concepts Course, 2017 Connecticut State Colleges & Universities Faculty Research Conference, March 2017
2. Oates, P and DePratti, R, You Can Become a Subject Matter Expert for Free, CIGNA 2017 Technical Conference, September 2017.
3. DePratti, R, A Survey of Interactive Notebooks and Their Role Supporting Computer Science Curriculum, 2018 Connecticut State Colleges & Universities Faculty Research Conference, March 2018

AWARDS AND RECOGNITION

1. 2008 RPI Outstanding Student Award in Computer Science
2. 2017 Eastern Adjunct 'Excellence in Teaching' Award