**Roland A. DePratti, M.Sc.**

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### EDUCATION

2008 M. Sc., Rensselaer Polytechnic Institute, Computer Science, CS Outstanding Student Award

1976 B.A., University of Connecticut, Psychology

**EMPLOYMENT**

2011 - 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 RESEARCH PROJECTS (for Industry)**

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.

**GRANT TECHNICAL SUPPORT WORK**

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.

**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 Course, The Journal of Computing Sciences in Colleges – recently accepted for presentation/publication.

**IN-PROGRESS PUBLICATIONS/RESEARCH**

1. Davis, M, DePratti, R., Dancik, G., Autograding Interactive Tools for Learning R/Python: Preparation for Statistics Projects. – approved for presentation at International Conference on Teaching Collegiate Mathematics (ICTCM)
2. Dancik, G., DePratti, R. Improving the Effectiveness of Journal Gene Searches
3. DePratti, R. Formative Self-Assessments, Do They Improve Computer Science Learning

**AWARDS AND RECOGNITION**

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