

## EMPLOYMENT SUMMARY

<u>Organization</u>	<u>Title</u>	<u>Time Period</u>
PSERS	Application Developer 2	November 2016 - present
Aerotek / Ply Gem	Artificial Stone Packer	October 2016 – October 2016
Bill McIntyre Chevrolet	Sales Associate	March 2016 – June 2016
Susquehanna University	Assistant Professor	August 2013 – August 2014
University of Pittsburgh	Visiting Assistant Professor	August 2008 – August 2013
Marist College	Assistant Professor	August 2005 – August 2008
Rensselaer Polytechnic Institute	Clinical Assistant Professor	January 2001 – June 2005
Rensselaer Polytechnic Institute	Systems Analyst	September 1998 – December 2000
Binghamton University	Graduate Assistant	September 1995 – May 1997
International Business Machines	Accountant	May 1991 – May 1995
United Parcel Service	Customer Service Representative	March 1987 – June 1987
United States Army	Active Duty	August 1985 – August 1987
Westinghouse, Inc.	Paint Line Tender	February 1984 – July 1984

## EDUCATION SUMMARY

<u>Organization</u>	<u>Credential</u>	<u>Specialty</u>	<u>Date Awarded</u>
UC California Berkeley and EdX	Certificate	Big Data	August 2015
Johns Hopkins and Coursera	Certificate	Data Science	May 2015
Rensselaer Polytechnic Institute	PhD	Engineering Science	December 2005
Rensselaer Polytechnic Institute	MS	Information Technology	December 2004
Binghamton University	MS	Accounting	May 1997
University of Missouri	BSBA	Finance and Banking	December 1990

## SKILLS SUMMARY

<u>Skill</u>	<u>Years</u>	<u>Level</u>
Relational Databases	20	Strong
Cognitive, Behavior, English Language Modeling	15	Strong
SQL	15	Strong
Python	3	Strong
R	5	Strong
Descriptive Statistics	15	Strong
Educational Program Evaluation	15	Strong
Logistic/Ordinal Regression	15	Strong
Non-parametric Alternatives	15	Strong
Probability Theory	15	Strong
Simple/Multiple Linear Regression	15	Strong
Customer Service	25	Intermediate
Project Management	16	Intermediate
Hypothesis Testing	15	Intermediate
Enterprise Systems	8	Intermediate
Machine Learning	1	Developing

## VOLUNTEER SERVICE SUMMARY

<u>Organization</u>	<u>Role</u>	<u>Year(s)</u>
PSERS	Fire Warden	2018
East Snyder Community Garden	Board Member	2016 – 2017
Geisinger Health System	Tutor, iPad and patient access to electronic charts	2016
University of Pittsburgh	Faculty Mentor, Kan Jam Club	2011-2013
University of Pittsburgh	Faculty Residence Hall Mentor	2011-2013
University of Pittsburgh	Ascend Faculty Sponsor	2011-2013
University of Pittsburgh	Coordinator, Introduction to Information Systems	2010-2013
University of Pittsburgh	Faculty Mentor, Hip Hop Dance Club	2010-2013
University of Pittsburgh	Faculty Mentor, SAP University Alliances	2012
Int'l Conference on IS	Associate Editor, IS Philosophy	2010
Int'l Conference on IS	Associate Editor, Knowledge Management	2010
University of Pittsburgh	Faculty Mentor, Int'l Project Management Triathlon	2010
Academy of Management	Facilitator, Stakeholder Perspectives	2009
Americas Conference on IS	Co-Chair, Human Traits and Decision-making	2009
Marist College	Chair, Library Development Committee	2007-2008
Marist College	Co-Chair, Re-accreditation Self-Assessment, IS	2006-2008
Marist College	Coordinator, Information Systems Faculty	2005-2008
Marist College	Member, MS Technology Management Curriculum	2005
Rensselaer Polytechnic Institute	Faculty Intervention Program Mentor	2003-2005
Singles Outreach Services, Inc.	Board Member	2000-2004
IBM	Tutor, algebra	1992

## GRANT SUMMARY

<u>Funding Organization</u>	<u>Amount</u>	<u>Year(s)</u>
National Science Foundation	\$89,999	2008-2011
National Science Foundation	\$11,494	2011
University of Pittsburgh Provost	\$23,000	2011
Katz Graduate School Dean	\$20,000	2009-2011
Seeds of Change	\$10,000	2016
Katz Graduate School Dean	\$1,200	2011

## PEER-REVIEWED AND ACCEPTED MANUSCRIPTS SUMMARY

<u>Type</u>	<u>Count</u>	<u>Year(s)</u>
Journal Article	4	2007 – 2011
Conference Proceeding	6	2004 – 2011
Book Chapter	1	2009
Dissertation	1	2005
Other Refereed	8	2004 – 2011
Grant Applications	5	2008 – 2011

## EXPERIENCE DETAIL

### **Commonwealth of Pennsylvania / Public School Employees' Retirement System (PSERS)**

Application Developer 2

*November 2016 – Present*

Support financial accounting and pension processing by providing information, discovering bugs, shepherding software improvements.

Example contributions:

- Identified 'hidden' benefits payable of \$196,000,000.
- Collaborated with vendor, as well as IT and operations units and resolved 166 bugs.
- Showing how 100,552 interacting software modules deliver 1059 specified needs.
- Built on demand and scheduled reports about workflows and workflow entities such as:
  - contributors, retirees, and dependents, as well as beneficiaries and guardians
  - retirement applications, benefit computations, and account adjustments
  - receivables and receipts as well as payables and disbursements
  - deductions, transfers, and health insurance as well as premium assistance
  - governmental reporting and audit processes

Example project:

- Planning, specifying, testing, and assuring implementation of Act 5 of June 12, 2017, amending Education (24 PA.C.S.), Military and Veterans Code (51 PA.C.S.) and State Government (71 PA.C.S.).

---

### **Aerotek and Ply Gem Industries**

Assembly Line Worker

October 2016 - October 2016

---

### **Unemployed Student**

September 2014 - October 2016

Key contributions:

- Built skills using Python Machine Learning libraries and achieved 'Big Data' certificate by completing program taught by faculty at the University of California Berkeley's Algorithms, Machines, and People Lab.
- Built skills using R data analytics packages and achieved 'Data Science' certificate by completing program taught by faculty in the Biostatistics Department at Johns Hopkins University.

Select details:

- Satisfied self of the efficacy of a executable linguistic model of cognition software prototype that I built.
- Built and documented repeatable data processing pipelines.
- Built a software that itself writes parser software programs for National Health Interview Survey Data.
- Reduced the number of dimensions upon which a statistical model is dependent.
- Assessed efficacy of an implementation of a statistical function built using the 'R' programming language.
- Completed data analytics courses taught by University of Pennsylvania's Wharton School faculty.
- Completed machine-learning courses taught by faculty at the University of Washington.

## EXPERIENCE DETAIL

(Continued)

### **Bill MacIntyre Chevrolet Buick**

Salesperson

March 2016 - June 2016

---

### **Susquehanna University**

Assistant Professor of Information Systems

August 2013 - August 2014

- Continued building software based executable linguistic model of cognition.
- Helped students learn information systems analysis and design.
- Researched design of 'system analysis and design' courses.
- Identified goals for 'system analysis and design' course.
- Identified new material to incorporate in 'system analysis and design' course.
- Assessed students' preparedness for 'system analysis and design' course.
- Developed teaching methods for 'system analysis and design' course.
- Developed learning plan for 'system analysis and design' course.
- Developed session plans for 'system analysis and design' course.
- Measured delivery of 'system analysis and design' course.
- Built and evaluated instructional information system for 'system analysis and design' course.
- Supported and encouraged students as they practiced skills and refine knowledge.
- Helped students build a portfolio.
- Attempted to identify best learning practices by using Socrative™, PollEverywhere™ in real-time.
- Used the assessment features in Blackboard® Learn to control quality.
- Wrote and published Clarifying the SAP ERPsim Experience.

---

### **University of Pittsburgh**

Visiting Assistant Professor of Management Information Systems

July 2008 - August 2013

- As programmer, continued building 'executable linguistic model of cognition' software.
- As author, reported 'information ethics education' practices by publishing journal articles.
- As teacher, helped students learn information systems management, project management, and data analytics fundamentals.
- As teacher, iteratively improved in-depth skill-focused courses based on data collection and use.
- As co-principal investigator in the INNOVATE educational research program
  - Helped students learn how to improve their collaboration abilities.
  - Focused on understanding how people could use software to collaborate effectively.
  - Researched, compared, and purchased software.
  - Evaluated tools to help leaders and member assess their competencies.
  - Described how course's results provided activities prescribed in model curriculum.
  - Prescribed content that included business processes and emerging technologies.
  - Delivered to requirements by managing twenty-three thousand dollars effectively

EXPERIENCE DETAIL  
(Continued)

**University of Pittsburgh**

Visiting Assistant Professor of Management Information Systems

July 2008 - August 2013

(Continued)

- As principal investigator and principal educator in the SAP ERPSIM educational research program
  - Helped students learn fundamentals about how to optimize business processes.
  - Eliminated, and mitigated risks driven by documentation and wireless network.
  - Assessed students' skills by analyzing transaction data provided by students.
  - Taught and supported instructors.
  - Addressed needs codified in 100 requirements by managing \$5,200 carefully.
  - Students experientially learned business process optimization.
  - Students practiced globalism collaboratively by running a German manufacturer.
  - Students used an innovative simulation using actual enterprise software.
- As co-principal investigator in the VIRTUALVERSITY educational research program
  - Helped students learn software engineering project management fundamentals.
  - Integrated media (3D ICC TERF®), theories, and case based learning.
  - Leveraged data from whiteboards, documents, and text chats.
  - Students collaboratively recommended project solutions.
  - Embedded case protagonists were actors.
  - Described project objectives
  - Explained how product achieved these objectives.
  - Reported theory grounded study.
  - Shared assessment methods used to evaluate instructional technology.
  - Published guidelines that will help instructors select instructional technology.
  - Analyzed data using theory grounded coding schemes.
- As co-principal investigator in the SIMULATE educational research program
  - Developed curriculum for learning ethics, supported by the National Science Foundation.
  - Applied 'learning gains' tests'
  - Students used innovative curriculum, method, and software
  - Students learned ethical decision making in a globally diverse world.
  - Analyzed criteria, decision making processes, and decisions within software.
  - Described how curriculum is grounded in ethics, knowledge, and cognitive theories.
  - Described assessment of curriculum using theories.
  - Found students learned importance of diversity, perspectives, values, and pluralism.
  - Managed \$89,999 and \$11,494 budgets, and a three--year schedule.
  - Managed 10 staff, and 100+ requirements.

## EXPERIENCE DETAIL

(Continued)

### **Marist College**

Assistant Professor of Information Systems

August 2005 - August 2008

- Continued 10,000 hour effort of building prototype of executable linguistic model of cognition.
  - Analyzed the information analysis educational program.
  - Analyzed the systems design educational program.
  - Analyzed the field project educational program.
  - Determined whether patrons were prepared for three disparate educational programs.
  - Determined whether three disparate educational programs' goals were achieved.
  - Identified strengths and weaknesses of three disparate educational programs.
  - Researched related programs and identified new material to incorporate.
  - Determined learning objectives and teaching methodologies.
  - Evaluated instructional systems regarding three disparate educational programs.
  - Analyzed results from learning science theory driven surveys.
  - Measured three disparate educational programs' deliveries and outcomes.
  - Recommended educational program methodologies allowed users to practice skills.
  - Recommended educ. program methodologies allowed users to refine their knowledge.
  - Recommended educ. programs' methods enabled patrons to build a portfolio of results.
  - Recommended and assessed tools such as IBM RationalArchitect to enable learning.
- 

### **Rensselaer Polytechnic Institute**

Adjunct then Clinical Assistant Professor of Management Information Systems

January 1999 - June 2005

- Analyzed the application use educational program.
  - Analyzed the systems implementation educational program.
  - Determined whether or not patrons were prepared for two educational programs.
  - Determined whether two educational programs' goals were achieved.
  - Identified strengths and weaknesses of two educational programs.
  - Researched related programs and identified new material to incorporate.
  - Determined learning objectives and teaching methodologies.
  - Recommended and evaluated instructional systems.
  - Analyzed results from learning science theory driven surveys.
  - Analyzed educational program deliveries and outcomes.
  - Recommended educational program methods allowed users to practice skills
  - Recommended educ. program methods allowed users to refine their knowledge.
  - Recommended educ. program methods enabled patrons to build a portfolio of results.
-

## EXPERIENCE DETAIL

(Continued)

### **Rensselaer Polytechnic Institute**

Systems Analyst

September 1997 - December 2000

- Coordinated student records extraction, transformation, and loading from legacy to ERP.
- 

### **Achaeon Technology, Inc.** (organization now defunct)

Project Manager

January 1998 - December 2000

- Prototyped enterprise software to support social service agencies.
- 

### **Binghamton University**

Graduate Assistant

September 1995 - May 1997

- Investigated total quality management efforts at university. Taught marketing fundamentals.
- 

### **International Business Machines Corporation (IBM)**

Accounting Clerk

May 1991 - May 1995

- Distributed \$3,000,000,000 annually to vendors and tax authorities.
  - Managed and improved business processes.
- 

### **United Parcel Service**

Customer Service Representative

March 1987 - June 1987

---

### **United States Army**

31 Kilo Combat Signaler Active Duty

August 1985 - August 1987

---

### **Westinghouse, Inc.**

Assembly Line Worker

January 1984 - July 1984

EDUCATION DETAIL

Rensselaer Polytechnic Institute  
**PhD Engineering Science**  
January 2001 - December 2005

Rensselaer Polytechnic Institute  
**M.S. Information Technology**  
September 1997 - December 2004

Binghamton University  
**M.S. Accounting**  
September 1993 - May 1997

University of Missouri, Columbia  
**B.S.B.A. Finance and Banking**  
September 1984 - December 1990

University of California, Berkeley and EdX  
**Big Data Certificate**  
May 2015 - August 2015

Johns Hopkins University and Coursera  
**Data Science Certificate**  
May 2014 - May 2015



## PUBLICATIONS

### DISSERTATION

Robbins, R.W. (2005). "Understanding Individual and Group Ethical Problem Solving: A Computational Ethics Approach. Rensselaer Polytechnic Institute.

---

### BOOK CHAPTER

Robbins, R.W., Fleischmann, K.R., and Wallace, W.A. (2009). "Computing and Information Ethics Education Research." Handbook of Research on Technoethics. Luppigini, R. and Adell, R. (Eds.). pp. 391408. Information Science Reference. New York.

---

### CONFERENCE PROCEEDINGS

Robbins, R.W., Wallace, W.A., and B. Puka, (April 2004). "Supporting Ethical Problem Solving: An Exploratory Investigation." Proc. 2004 ACM SIGMIS CPR, pp. 134143. ACM Press.

Robbins, R.W. and Hall, D.J. (August 2007). "Decision Support for Individuals, Groups, and Organizations: Ethics and Values in the Context of Complex Problem Solving." Proc. 2007 Americas Conference on Information Systems. Association for Information Systems. Keystone, Colorado.

Robbins, R.W. and Butler, B.S. (August 2009). Teaching and Learning Collaboratively and Virtually Proc. 2009 Americas Conference on Information Systems. Association for Information Systems. San Francisco, CA. Paper No. 6.

Robbins, R.W. and Butler, B.S. (December 2010). Virtual Teaching Cases? An Exploratory Study. Proc. 2010 International Conference on Information Systems. Association for Information Systems. Saint Louis, MO.

Fleischmann, K.R., Robbins, R.W., and Wallace, W.A. (January 2011). Collaborative Learning of Ethical Decision Making via Simulated Cases. Proc 2011 i-Conference. Seattle, WA. Available in ACM Digital Library.

---

### JOURNAL ARTICLES

Robbins, R.W., and Wallace, W.A. (August 2007). "Decision Support for Ethical Problem Solving: A Multiagent Approach." Decision Support Systems 43(4): 1571-1587.

Fleischmann, K.R., Robbins, R.W., and Wallace, W.A. (Jan 2009). "Designing Educational Cases for Intercultural Information Ethics: The Importance of Diversity, Perspectives, Values, and Pluralism." Journal of Education for Library and Information Science 50(1): 414.

Robbins, R.W. and Butler, B.S. (Summer 2009). "Selecting a Virtual World Platform." Journal of Information Systems Education. Special Issue: Impacts of Web 2.0 and Virtual World Technologies on IS Education 20(2): 199-210.

Fleischmann, K.R., Robbins, R.W., and Wallace, W.A. (Winter 2011). "Information Ethics Education for a Multicultural World" Journal of Information Systems Education. Special Issue: Special Issue on Ethics & Social Responsibility 22(3): 191-202.

---

## AWARDS AND GRANTS

Principal Investigator: \$300,000, National Science Foundation, Educational Simulation for Computing and Information Ethics. Collaboration with colleagues at University of Maryland College Park and Rensselaer Polytechnic Institute. 2007-2010.

Principal Investigator: \$1,200, Experience Based Learning Grant, Joseph M. Graduate School of Business, University of Pittsburgh, August 2011.

Principal Investigator: \$11,494, National Science Foundation, Research for Undergraduate Education. May 2011.

Co-Investigator: \$23,000, Educational Technology Innovation Grant, The Virtual Firm: An Interactive Environment for Teaching IT Opportunity Recognition. March 2011.

Co-Investigator: \$20,000, Collaborative Technology Innovation Grant. 2009-2010.

Finalist: Excellence in Ethics Dissertation Proposal Competition at the University of Notre Dame. 2004.

---

## ASSOCIATIONS

### INFORMS

Association for Information Systems

Academy of Management

Cognitive Science Society

IEEE Computer Society

IEEE Systems, Man, and Cybernetics Society

North American Association for Computational Social and Organizational Systems