Curriculum Vitae

REGINA COLLINS, PH.D.

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ADMINISTRATIVE EXPERIENCE

Associate Director, Assessment and Evaluation
Office of Institutional Effectiveness
New Jersey Institute of Technology (NJIT), October 2016 to Present

- Coordinate continuous academic assessment across the university through yearly self-studies and five-year program reviews
    - Provide support to faculty and department chairs through documented procedures and standardized templates and rubrics
    - Ensure availability of all necessary data for program assessment
    - Report to senior staff on status of assessment efforts
- Conduct special assessment activities as requested by university administration, including a detailed evaluation of the roles of distributed Directors of Research and an in-depth investigation of mathematics instruction; use qualitative and quantitative techniques to collect and analyze data and submit final report to senior administration
- Oversee assessment of non-academic departments that provide student support and enhance the student experience
- Conduct other special evaluation activities such as the review of peer institutions and the identification of new peers using statistical methods
- Manage assessment-focused web pages to ensure all information is easily accessible
- Complete yearly Institutional Profile required by the State of New Jersey; assist with other internal and external data requests including the National Center for Education Statistics longitudinal studies
- Collaborate with the Associate Director for Institutional Research and Planning to provide in-depth data analyses to senior administration

Associate Director, Writing, Communications, and Outreach
Albert Dorman Honors College
New Jersey Institute of Technology, May 2015 to October 2016

- Assess Honors course availability and use of course enhancements to identify gaps and to ensure consistency of educational outcomes across enhancements
- Consolidate yearly Honors College survey results to identify positive and negative trends and issues to be addressed by administration
- Assist in evaluating Honors course offerings in light of advanced standing of incoming freshmen
- Represent the Honors College on committees including the Committee on Honors Education and the General Undergraduate Requirements subcommittee of the Committee on Undergraduate Education
- Develop honors courses and seminars for students and participate in continuous improvement of Honors individual learning experience through development of milestone learning experiences
- Administer experiential learning opportunities for international students including Institute of International Education (IIE) Brazilian Scientific Mobility Program (BSMP) and Global Experience and Training (GET)
- Coordinate high-visibility lecture series featuring industry leaders and researchers
- Mentor students in research writing, oversee undergraduate research projects, and evaluate applications for undergraduate research funding
- Create and implement communication strategy for Honors College integrating print, electronic, and web-based materials
- Manage branding through existing and new social media outlets

ASSESSMENT-RELATED EXPERTISE

TOOL DEVELOPMENT: WEBPAA

♦ Developed web-based assessment application (WebPAA) to support online scoring of student writing e-portfolios

♦ Maintained and improved assessment application to support changing programmatic learning outcomes

♦ Administered assessment sessions with Humanities faculty every semester between 2010 and 2014

♦ Presented application to Information Systems department for evaluation as a potential assessment tool

♦ Participated in online webinars on Transforming Assessment presented through ASCILITE SIG

♦ Participated in Information Systems ABET assessment through creation of SCOUTS and SPROUTS and

OTHER EXPERIENCE

♦ Participated in online webinars on Transforming Assessment presented through ASCILITE SIG

♦ Participated in Information Systems ABET assessment through creation of SCOUTS and SPROUTS and identification/submission of representative student assignments

EDUCATION

New Jersey Institute of Technology, Newark, NJ

Ph.D., Information Systems, 2015.
College of Computing Sciences
DISSERTATION: *Assessing Learning Outcomes and Social Capital Formation Resulting from the Use and Sharing of Internet Knowledge Resources*

M.S., Professional and Technical Communication, 2010.
College of Science and Liberal Arts
THESIS: *Web-Based Portfolio Assessment: An Open Source Solution for Platform Design*

B.S., Computer and Information Science, 1985
College of Computing Sciences
SENIOR CAPSTONE: *Computer Hardware Description Language*

COURSE DEVELOPMENT

Introduction to Research Methods (STS 205)   *Effective Summer 2016*
Provides an introduction to general research methods including qualitative and quantitative methods, ethical data collection, sampling methods, and experimental design.

Analyzing Social Networks (PTC 628)   *Effective Fall 2010*
Introduces the concepts of social networks, provides an overview of the mathematical calculations of network measures, and invites students to learn social network analysis tools to conduct their own investigations. (This course was initially offered through the Master of Science in Professional and Technical Communication program but was subsequently moved into the Information Systems department where a slightly modified version of the course is offered as IS 333—Social Network Analysis.)

TEACHING EXPERIENCE

ADJUNCT INSTRUCTOR, Information Systems & Science, Technology and Society, NJIT

IS 350: Computers, Society and Ethics (*Fall 2015 to Present*) Undergraduate, face-to-face course. Overall teaching effectiveness:

Spring 2016:	3.50/4.00	(Departmental Average: 3.31)
Fall 2015:	3.64/4.00	(Departmental Average: 3.32)

STS 205: Introduction to Research Methods (*Summer 2016*) Undergraduate, face-to-face course (part of onboarding of IIE BSMP students)

MGMT 650: Knowledge Management (*Summer 2015*) AQ instructor for Executive MBA course

INSTRUCTOR, Information Systems, NJIT
(in fulfillment of academic scholarship requirements)

IS 390: Analysis and System Design *(Fall 2014/Spring 2015)* Undergraduate, face-to-face course. Overall teaching effectiveness:

Fall 2014:	3.77/4.00	(Departmental Average: 3.42)
Spring 2015:	3.73/4.00	(Departmental Average: 3.26)

IS 663: Advanced Systems Analysis and Design *(Spring 2014)* Graduate, distance learning course

APPRENTICE INSTRUCTOR, Information Systems, NJIT
(in fulfillment of academic scholarship requirements)

IS 390: Analysis and System Design *(Fall 2013)* Undergraduate, face-to-face course

TEACHING ASSISTANT, Information Systems, NJIT
(in fulfillment of academic scholarship requirements)

IS 663: Advance Systems Analysis and Design *(Fall 2012/Spring 2013)* Graduate, face-to-face course

HONORS AND AWARDS

- Excellence in Instruction by a Teaching Assistant, New Jersey Institute of Technology (NJIT), 2015
- Dana Knox Research Showcase—1st Place, Graduate Student Research, NJIT, 2015
- Invited Graduate Student Speaker—University Board Day, NJIT, 2015
- Constance A. Murray Scholarship for Graduate Women Students, NJIT, 2014
- Alumni Fellow Scholarship, NJIT, 2013 to 2015
- Grace Hopper Faculty Scholarship, Anita Borg Institute, 2016
- Kaufmann Travel Grant, GW October Global Entrepreneurship Conference, 2014
- Alpha Epsilon Lambda Graduate Honor Society, NJIT chapter, 2014

PROFESSIONAL ASSOCIATIONS / AFFILIATIONS

- Association for Institutional Research
- Association for Information Systems
- Association for Computing Machinery
- Institute for Operations Research and the Management Sciences
- Society for Learning Analytics Research

RESEARCH EXPERIENCE

Entrepreneurship Education Research   *Summer 2014*
Research faculty : Katia Passerini, Cesar Bandera

This research investigated the integration of experiential, technology-supported learning into entrepreneurship education and the effects of such learning experiences on entrepreneurial intentions and attitude towards risk taking. Responsibilities included:

♦ Identifying proper statistical techniques based on sample size and characteristics of data set

♦ Conducting all data analysis including data cleaning, descriptive statistical analysis, non-parametric tests, and partial last squares (PLS) analysis

♦ Evaluating the research model in light of statistical results

NJIT Advance (National Science Foundation Grant #1008549)   *2011 to 2013*
PI: Nancy Steffen-Fluhr; Co-PIs: Robert Friedman, Katia Passerini, Yi-Fang Wu

NJIT Advance explored faculty collaboration through co-authorship of published papers and grant proposals using both traditional statistical analysis and social network analysis methodologies, using this data to encourage the inclusion and advancement of women and under-represented minorities in the STEM disciplines. Responsibilities included:

♦ Preparing and cleaning 10 years of faculty co-authorship data for analysis, including identifying duplicate entries, disambiguating common names, and compiling faculty attributes from a variety of data sources

♦ Creating datasets to input co-authorship data into social network analysis software program (yearly and cumulative)

♦ Conducting data analysis using quantitative statistical methods and social network analysis

Open Knowledge Exchange System (National Science Foundation Grant #0968445)   *2010 to 2011*
PI: Robert Friedman; Co-PIs: Michael Brownstein, Norbert Elliot, Nicole Radziwill, Brian Whitworth

The Open Knowledge Exchange system investigated perceptions of system design principles important in promoting meta-disciplinary collaboration based on socio-technical principles. Responsibilities included:

♦ Reviewing relevant literature to create a survey soliciting input on socio-technical design principles for the system

♦ Analyzing survey data using quantitative and qualitative statistical methods

♦ Creating Installation Guide and User Manual for prototype system

NJIT Advance (National Science Foundation Grant #0547427)   *2009 to 2010*
PI: Nancy Steffen-Fluhr; Co-PIs: Priscilla Nelson, Sima Bagheri, Zoi-Heleni Michalapolou, Lisa Axe

NJIT Advance applied social network analysis to faculty co-authorship networks to identify the impact of centrality and isolation on the advancement and retention of women and under-represented minorities in the STEM disciplines. Responsibilities included:

♦ Assisting in data cleaning and compilation of faculty attribute data

♦ Creating datasets of faculty co-authorship for a six year period and analyzing the networks using social network analysis techniques

♦ Conducting quantitative data analysis on faculty attribute data

NON-ACADEMIC EMPLOYMENT (HIGHLIGHTS)

Consulting Technical Writer *Netsoft USA*
- Writing/editing white papers for corporate blog and website
- Creating documentation for software developed for major healthcare provider
- Documenting proprietary software development framework by stepping through developers' code

Alumnae Director *Marylawn of the Oranges*
- Maintaining alumnae database, running reports, and managing batch data processing
- Designing and writing bi-annual alumnae newsletters
- Developing annual fund and phonathon materials
- Assisting Director of Development with grant writing efforts
- Planning and executing fundraising events

Consulting Technical Writer *Pointcast, Inc.*
- Creating documentation for new, commercial software product including quick start card and user's guide
- Producing online help files for product
- Developing copy for product packaging

Senior Technical Writer *Digital Equipment Corp.*
- Writing documentation for major software products including programming languages, operating system libraries, and new software architectures
- Leading documentation teams and interfacing with software developers and product managers

PUBLICATIONS

PEER-REVIEWED JOURNALS

Collins, R., and Steffen-Fluhr, N. (in print). "Hidden Patterns: Using Social Network Analysis to Track Career Trajectories of Women STEM Faculty." *Equality, Diversity and Inclusion: An International Journal.*

Bandera, C., Collins, R., and Passerini, K. (2018). "Risky Business: Experiential learning, information and communications technology, and risk taking attitudes." *International Journal of Management Education* 16.2: 224-238.

Collins, R., and Deek, F.P. (2014). "Engaging Individual Learning Through Collaborative Knowledge Building Processes: A Hybrid Framework." *International Journal of Collaborative Engineering* 1.3/4: 317-328.

Collins, R., Elliot, N., Klobucar, A., and Deek, F.P. (2013). "Web-Based Portfolio Assessment: Validation of an Open Source Platform." *Journal of Interactive Learning Research* 24.1: 5-32.

Collins, R., Deek, A., and Friedman, R. (2013). "Open Knowledge Exchange Systems: The Users' Perspective." *International Journal of Technology, Knowledge and Society* 8.3: 69-77.

Collins, R., and Steffen-Fluhr, N. "Hidden Patterns: Using Social Network Analysis to Track Career Trajectories of Women STEM Faculty." *Equality, Diversity and Inclusion: An International Journal 37.6: pp.*

Osatuyi, B., Steffen-Fluhr, N., Gruzd, A., and Collins, R. (2010). "An Empirical Investigation of Gender Dynamics and Organizational Change." *International Journal of Knowledge, Culture and Change Management* 10.3: 23-36.

PEER-REVIEWED CONFERENCES

Collins, R., and Gruzd, A. (2017). "Learning with Digital Media: Investigating the Relationships Between Student Citation Networks, Assignment Structures, and Learning Outcomes." *Proceedings of Hawaii International Conference on System Sciences.*

Collins, R., Hiltz, S.R., and Deek, F.P. (2017). "Knowledge Management for Learning: ICT System Affordances and the Impact of Order of Use." *Proceedings of Hawaii International Conference on System Sciences.*

PUBLICATIONS (CONT'D)

PEER-REVIEWED CONFERENCES (CONT'D)

Collins, R., Deek, F.P., and Hiltz, S.R. (2015). "Share and Share Alike: Integrating Internet Resource Sharing Into Learning." *Proceedings of 21ˢᵗ Americas Conference on Information Systems*, Puerto Rico.

Alelyani, T., Collins, R., Hiltz, S.R., and Xiong, Y. (2015). "Not Just Silly Cat Videos: Knowledge Sharing via Social Media." *Proceedings of 21ˢᵗ Americas Conference on Information Systems*, Puerto Rico.

Bieber, M., Cai, X., Collins, R., Hiltz, S.R., Liu, Y., and Sanchez Suasnabar, E. (2015). "How Hands Free Always On (HFAO) Technology Will Affect Classrooms." *Proceedings of 21ˢᵗ Americas Conference on Information Systems,* Puerto Rico.

Collins, R., and Deek, F.P. (2012). "Knowing Together, Learning Apart: A Proposed Framework for Supporting Individual Learning Through Collaborative Knolwedge Building Tools." (research in progress) *Proceedings of International Conference on Information Systems,* Orlando, FL.

Collins, R., Dwyer, C., Hiltz, S.R., and Shrivastav, H. (2012). "Do I Know What You Can See? Social Networking Sites and Privacy Management." *Proceedings of 18th Americas Conference on Information Systems*, Seattle, WA. **(Paper awarded 3rd place for Best Practitioner-Oriented Paper.)**

Shrivastav, H., Collins, R., and Hiltz, S.R. (2012). "Facebook News Feed: Relevance or Noise?." *Proceedings of 18th Americas Conference on Information Systems*, Seattle, WA.

Steffen-Fluhr, N., Collins, R., Passerini, K., Wu, Y., Gruzd, A., Zhu, M., and Hiltz, S.R. (2012). "Leveraging Social Network Data to Support Faculty Mentoring: Best Practices from NJIT ADVANCE." *Proceedings of International Women in Engineering Programs and Advocates Network Conference,* Columbus, OH.

PRESENTATIONS AND POSTERS

"From the Tree to the Forest." (Presentation) *Contemplative Practices for the 21st Century*, Blacksburg, VA, March 10-12, 2016.

"Leveraging Network Data to Support Women STEM Faculty." (Presentation) *INFORMS Annual Meeting*, Philadelphia, PA, October 31-November 4, 2015.

"Learning by Using and Sharing Internet Resources." (Presentation) *20th International Online Learning Consortium Conference*, Orlando, FL, October 29-31, 2014.

"Exploring Pearltrees: A Social Media System Supporting Knowledge Management for e-Learning." (Poster) *Social Media and Society Symposium*, Toronto, CA, September 27-28, 2014.

"Learning by Using and Sharing Internet Resources." (Poster) *Learning Analytics Summer Institute*, Harvard, MA, June 30-July 2, 2014.

"Using Social Network Analysis and Research Collaboration Data to Identify Patterns of Faculty Influence." (Poster) *Symposium and Workshop on Measuring Influence on Social Media*, Dalhousie University, Halifax, NS, September 28-29, 2012.

"Talking Through the Noise: Methodological Issues in Collecting Faculty Network Data." (Presentation) *Sunbelt XXXII*, Redondo Beach, CA, March 13-18, 2012.

"More Than the Sum of its Parts: Advancing Women at NJIT Through Collaborative Research Networks." (Poster) *National Science Foundation Principal Investigators' Meeting*, Washington, D.C., November, 2011.

"A Web-Based Platform for Portfolio Assessment: A Community-Based Application." (Presentation) *Council of Writing Program Administrators Conference*, Philadelphia, PA, July 15-18, 2010.

"Social Network Analysis of Gender Patterns in Bibliometric Data: An Effective Tool for Assessing Institutional Climate Change in Academia." (Presentation) *Sunbelt Conference*, Trento, Italy, July, 2010.

"Women in Academia: Examining Women's Positions in Social Networks Based on Faculty Co-Authorship Data." (Presentation) *Canadian Conference of Women in Engineering, Science, Trade and Technology*, Winnipeg, CA, May 14, 2010.

"N is for Network: New Tools for Mapping Organizational Change." (Poster) *Joint Conference of WEPAN and NAMEPA*, Arlington, VA, April 13, 2010.

PROFESSIONAL DEVELOPMENT ACTIVITIES

Big Data Analytics
MIT Certificate Program in Big Data Analytics and Social Physics

Learning Analytics
Three-day summer institute sponsored by the Society for Learning Analytics Research (SoLAR)

Social Network Analysis
- Two-day workshop on the use of Carnegie Mellon's Organizational Risk Analyzer (ORA) software
- Three-day intensive seminar on UCINET 6 and Netlytic.org

Structural Equation Modeling
Three-day workshop organized by Marriott School of Business, Brigham Young University

Agile Software Development
Scrum Framework and Scrum Master Certifications

Teaching
Seminars offered through the Institute for Teaching Excellence at New Jersey Institute of Technology

Doctoral Consortium
Americas Conference on Information Systems 2014

SPECIALIZED SKILLS

- Python, PHP and HTML Programming
- SQL/MySQL Database Administration
- Drupal Web Development
- Amazon Web Services / Cloud Computing
- System Analysis / Unified Modeling Language
- Technical Writing
- Social Media Management
- Digital Commons Repository Administration

SERVICE

UNIVERSITY
- Participated in discussions with various university stakeholders regarding requirements for and selection of university-wide digital repository

COMMUNITY
Peer reviewer for the following publications:
- Communications of the Association for Information Systems
- Knowledge Management and E-Learning
- Hawaii International Conference on System Sciences
- Americas Conference on Information Systems
- International Conference on Information Systems
- 2012 Symposium and Workshop on Influence on Social Media
- Transactions on Computer-Human Interaction (ACM)