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Profile Summary

- Futurist, strategist, and philanthropist with 25 years of experience in diverse sectors, including:
 - Corporate: Pattishall, McAuliffe intellectual property law firm
 - Nonprofit: National Center on Philanthropy and the Law
 - Government: AmeriCorps national service program
 - Academia: Lloyd Hall Scholars Program at University of Michigan
 - Startup: Law Journal EXTRA! national Internet service provider
- Professional skills and expertise include:
 - Cross-cultural public outreach, civic engagement, and grassroots mobilization
 - Digital tools for interdisciplinary research and knowledge management
 - Identification, incentivization, and implementation of sustainable best practices
 - Internal and external collaboration to resolve complex, emergent challenges
 - Leadership development and mentorship for mission-driven organizations
 - Online charitable fundraising campaigns, and management of grant portfolios
 - Project planning and management at multiple levels of scale
 - Qualitative data analysis to evaluate social impact of new programs
 - Strategic, evidence-based venture philanthropy for local and global initiatives
 - Written, oral, and visual communication for expert, as well as general, audiences

Education

University of Michigan, Ann Arbor, MI

- Ph.D. candidate, School of Information (expected graduation: 2012)
- Research agenda: Exploring the humanistic implications of emerging technologies, including the complex transformation of ethical norms, legal and policy standards, and sociocultural values
- Dissertation project proposed new risk assessment strategy of "frontier pronesis" for decisionmaking under conditions of uncertainty that involve novel information technologies, by applying Nobel Prize economist Amartya Sen's "capability approach" social policy framework for international community development
- Interdisciplinary research interests included:
 - Artificial intelligence, robotics, Internet of Things, and 3D digital fabrication tools
 - Bioinformatics, including genomics, DIYbio, and synthetic biology

- Community informatics for civic participation, deliberation, and empowerment
- Qualitative research methods, including surveys, interviews, and focus groups
- Sociotechnical systems and cyberinfrastructure

University of Michigan, Ann Arbor, MI

- Certificate of Graduate Studies in Science, Technology & Society, Rackham Graduate School, 2006
- Interdisciplinary research interests included:
 - Cognitive neuroscience and neuroethics
 - Digital citizenship, democracy, and governance
 - Forecasting, foresight analysis and scenario planning
 - Participatory action research and the scholarship of public engagement
 - Social entrepreneurship and innovation in the public interest

University of Michigan, Ann Arbor, MI

- M.S., School of Information, 2003
- Member, Community Information Corps
- Completed technocentric service-learning group projects for academic credit on behalf of local community partners and nonprofit organizations, including:
 - Washtenaw Library for the Blind and Disabled: Conducted organizational behavior and user needs analysis to support visually impaired patrons
 - Matthaei Botanical Gardens: Designed online exhibit on African-American agricultural history and cultural heritage for "Out of Africa" K-12 educational outreach program
 - Arts of Citizenship: Developed classification system for local repository of historical materials linked to statewide Underground Railroad digital archive
- Lived in undergraduate student residence hall and served as residence hall librarian

Singularity University, Mountain View, CA

- Certificate, Graduate Studies Program, 2009
- Selected as one of forty students to participate in inaugural summer session, held at NASA Ames Research Center in Silicon Valley (from more than 1200 applicants worldwide)
- Awarded tuition scholarship from international venture capital firm ePlanet Ventures
- Completed residential leadership program to hone knowledge and skills to apply exponentially advancing technologies to address global humanitarian challenges
- Primary expertise track: Policy, law & ethics
- Secondary concentration track: Futures studies, finance & entrepreneurship
- Elected by colleagues as one of three student leaders to manage development of four team projects to improve the lives of one billion people during the next decade
- Co-founder of Team Acasa, an innovative social entrepreneurship project that proposed leveraging exponential advances in rapid, automated 3D printing technologies to construct sustainable, affordable housing for the developing world
- Coauthored Acasa business plan presented to faculty, media and potential investors
- Student activities filmed throughout summer for forthcoming documentary "The University"

Yale Law School, New Haven, CT

- J.D., 1991
- Awarded Honors in several courses for superior academic performance
- Yale Journal on Regulation: Executive Editor and Member, Board of Directors, 1990-91; Articles Editor, 1989-90; Editor, 1988-89

Trinity College, Hartford, CT

- B.A. in Religion, 1986
- Graduated with Honors in General Scholarship
- Named to Faculty Honors List
- Completed two-year interdisciplinary honors program: Guided Studies in European Civilization

Honors & Awards

Professional Recognition

- Who's Who in the World, 2010-present
- Who's Who in America, 2003-present
- Who's Who of American Women, 2003-present
- Who's Who in American Law, 1992-present
- Who's Who Among American Law Students, 1989-91

Academic Honors

- Margaret Mann Award for Academic Achievement & Professional Promise, School of Information, University of Michigan, 2003
- Phi Beta Kappa, Trinity College, 1985

Fellowships

- Rackham Regents' Fellowship, Rackham Graduate School, University of Michigan, 2004-07, 2009-10
- Jacob K. Javits Fellowship, U.S. Department of Education, 2005-09
- Information Ethics Fellowship, Center for Information Policy Research, University of Wisconsin-Milwaukee School of Information Studies, 2007
- Olin Fellowship, John M. Olin Center for Law & Economics, University of Michigan Law School, 2004-05
- Research Fellowship, Rackham Graduate School, 2003
- Resident Fellowship, Lloyd Hall Scholars Program, University of Michigan, 2002-03
- Microsoft Summer Fellowship, Community Information Corps, 2002
- Community Information Fellowship, Alliance for Community Technology, University of Michigan, 2002

Scholarships

- Op-Ed Project Scholarship, The White House Project, 2010
- ePlanet Ventures Scholarship, Singularity University, 2009
- Access to Education Scholarship, USA Funds, 2005-09

- Margaret Dow Towsley Scholarship, Center for the Education of Women, University of Michigan, 2001-03
- General Tuition Scholarship, School of Information, 2001-03

Leadership & Service

- Inaugural external member of Admissions Executive Committee, to evaluate highly-qualified student candidates in collaboration with medical faculty and dean, University of Michigan Medical School, 2010-11
- Founding member of committee to establish alumnae scholarship, and oversee first annual scholarship competition, Sacred Heart Academy (NY), 2010-11
- Consultant for redesigning team projects component of Graduate Studies Program, Singularity University, 2010
- Planning committee member for National Science Foundation (NSF) sponsored academic workshop and book project, "Ethical Guidance for Research and Application of Pervasive and Autonomous Information Technology," Poynter Center for the Study of Ethics and American Institutions at Indiana University, 2009-10
- Curriculum development consultant, inaugural "Ethics and Information Technology" capstone course for new undergraduate interdisciplinary major in Informatics, University of Michigan, 2007
- Board member and expediting reviewer for approval and monitoring of human subjects research studies conducted by affiliated faculty, staff, and students worldwide, including review of compliance with federal and university regulations, University of Michigan Behavioral Sciences Institutional Review Board, 2006-08
- Task force member, chair of external resources subcommittee, and co-author of final task force report to university president, which resulted in establishment of Center for Ethics in Public Life, University of Michigan President's Task Force on Ethics in Public Life, 2004-05

Experience

Acasa, Mountain View, CA

- Co-founder, Acasa (WeAreAcasa.com), 2009-10
- Helped establish startup venture that proposed adapting new large-scale 3D printing technologies to build affordable housing for the developing world, in collaboration with industry leaders, international NGOs, and local communities
- Participated in corporate launch and pursuit of investment opportunities for spinoff of social entrepreneurship team project from Singularity University's inaugural session
- Media coverage of Acasa (syndicated worldwide) includes:
 - "Singularity University Students Graduate to the Real World," Financial Times (UK), Aug. 2009
 - "Singularity University Semester Completion & Projects," Next Big Future, Aug. 2009
 - "At Singularity University, Tech Is Seen as Savior," Associated Press, Aug. 2009
 - "Greetings from Future Camp," Popular Science, Jan. 2010

- "At Singularity University, Blowing Minds & Taking Meetings," CNET News, Mar. 2010
- "Ten Weeks to Save the World," Nature, Sept. 2010
- "Sustainable Futures, Strategies, and Technologies," The Futurist, Nov.-Dec. 2010

University of Michigan, Ann Arbor, MI

- Resident Fellow, 2002-03
- Affiliated with the Lloyd Hall Scholars Program, a campus living-learning community
- Developed and taught three undergraduate seminars:
 - Community Service: Habitat for Humanity
 - Creativity, Copying and the Control of Information
 - Imagining the Future: Digital Storytelling
- Supervised two independent study courses for undergraduate teaching assistants
- Served as academic consultant at residence hall writing center associated with the Sweetland Center for Writing
- Organized educational and cultural programs for undergraduate student residents
- Completed independent study project on pedagogy of residential programs
- Lived in residence hall and served as academic mentor to college students

Museum of Science, Boston, MA

- Exhibit Component Developer, 2002
- Affiliated with Cahners ComputerPlace exhibition hall
- Developed three new exhibits exploring current technology controversies:
 - Historical and contemporary artificial intelligence research
 - Environmental challenges in recycling computer hardware components
 - Evaluating credibility of online science and technology resources
- Designed layout of exhibit components and informative signage for each exhibit
- Created user interfaces and software instructions for interactive computer workstations, and conducted usability testing
- Selected artwork, books and multimedia applications for each installation
- Supervised college student interns

AmeriCorps, Yellow Springs, OH

- VISTA Service Leader, 2000-01
- Affiliated with the Center for Community Learning at Antioch College, sponsored by Ohio Campus Compact
- Assisted faculty members in several departments to develop multiple college courses that integrated local community service activities within academic curriculum
- Established campus resource center with service-learning reference materials
- Organized regional faculty service-learning conference for Midwestern universities
- Contributed to successful faculty grant proposals for new service-learning initiatives, including:
 - Implemented campus-community dialogue program
 - Redesigned academic course to focus on civic engagement

- Collaborated with urban as well as rural nonprofit organizations to develop service-learning initiatives responsive to needs of underserved communities
- Co-founded Del Pueblo, a new social justice nonprofit organization to assist Ohio migrant farmworkers, including developing mission statement and strategic direction, selecting members for board of directors, organizing board governance training workshops, applying for tax-exempt status, and identifying funding opportunities
- Designed campus web site for Center for Community Learning
- Composed white paper for college community as well as statewide audience, containing recommendations for service-learning program sustainability
- Lived in residence hall and served as academic mentor to college students
- Awarded citation of merit from college president in recognition of service to academic community

AmeriCorps, New York, NY

- Technology Coordinator, 1999-2000
- Affiliated with Project F.I.R.S.T. (Fostering Instructional Reform through Service and Technology), sponsored by New Visions for Public Schools
- Assisted several elementary and high schools within New York City public school system in improving institutional capacity to reduce information inequality
- Established long-term plan to manage school technology resources
- Developed successful grant proposals to secure information technology funding
- Collaborated with teachers and school media librarians to create innovative curricular units integrating instructional technology within the classroom
- Designed and implemented series of daytime as well as evening technology training workshops for individuals and groups, including teachers, students, and parents
- Maintained school-wide computer network for Robert F. Wagner, Jr. Secondary School for Arts & Technology
- Created online reference materials for alternative high school with inquiry-based learning curriculum
- Produced interactive web site for "The Rhythm Is Changing," a national student performing arts conference, to facilitate remote online collaboration by participants
- Received inaugural award for extraordinary service during graduation ceremony

New York University School of Law, New York, NY

- Research Scholar, 1996-99
- Affiliated with the National Center on Philanthropy and the Law
- Examined role of nonprofit sector in society, including institutional governance, legal rules for tax-exempt status, and grantmaking regulations
- Created web site and research database containing more than 5,000 book and article citations to provide legal information for international nonprofit community
- Conducted legal research and analysis for national academic conferences, and for monthly publication in Exempt Organization Tax Review
- Contributed to successful multi-year grant proposal funded by Pew Charitable Trusts to support online initiatives
- Supervised law student research assistants

The New York Law Publishing Company, New York, NY

- Internet Editor, 1994-95
- Served as director of Internet resources for Law Journal EXTRA!, the National Law Journal's comprehensive subscription-based online service
- Developed early skunkworks project during emergence of commercial Internet era
- Provided customized Internet access for the legal profession through nationwide ISP system (subsequently acquired by American Lawyer Media)
- Created innovative Internet clearinghouse of legal news and judicial decisions, and organized links to federal and state laws and related online information resources
- Supervised dynamic content and layout design by editorial and technical staff
- Moderated online discussion groups on legal topics for attorneys

John Marshall Law School, Chicago, IL

- Adjunct law professor, 1993
- Prepared and co-taught J.D. course on trademark and copyright law
- Supervised and evaluated LL.M. student independent study course on trademark and trade dress law

Pattishall, McAuliffe, Newbury, Hilliard & Geraldson, Chicago, IL

- Attorney, 1991-93
- Conducted intellectual property litigation to protect creative, innovative, and artistic works, including copyright, trademark, patent, trade secret, and antitrust cases
- Composed trial and appellate court briefs, and drafted software licenses and other agreements
- Authored continuing legal education materials and lectured at educational seminars
- Provided research support for revised edition of Trademarks and Unfair Competition casebook
- Organized public educational programs for artists and cultural organizations as member of Lawyers for the Creative Arts
- Representative clients included AT&T, Encyclopedia Britannica, Ford Motor Company, Gateway 2000, Macmillan-McGraw Hill, RJR Nabisco, SC Johnson, Urantia Foundation, The Walt Disney Company, Wingspread Foundation

New York Life Insurance Company, New York, NY

- Script System Consultant, 1987-88
- Maintained online document assembly system that produced customized health and life insurance policies for corporate clients and their employees
- Modified system to automatically convert and update standard contract language at individual policyholder level to reflect new and revised state and federal regulations, including initial implementation of COBRA healthcare coverage rules
- Composed users manual for systems analysts, and served as liaison between information systems and legal departments

Publications

- Ryan, M. (forthcoming 2012). Engaging "Voices of the People" in dialogue regarding ethical implications of ambient intelligence environments. In K. Pimple (Ed.), *Ethical Guidance for Emerging Pervasive Information and Communication Technologies: Challenges, Opportunities, and Safeguards*. New York: Springer.
- Ryan, M. (forthcoming 2012). Federal ethics regulations governing Internet research: New educational challenges for universities. *Teaching Ethics* 12(2).
- Ryan, M. (2009). The sociotechnical infrastructures of virtual worlds. In D. Heider (Ed.), *Living Virtually: Researching New Worlds* 23-44. New York: Peter Lang.
- Ryan, M. (2008). Conducting research in online communities. *Teaching Ethics* 8(2), 111-124.

Presentations

Media Interviews

- "What Traditional Academics Can Learn from a Futurist's University," in *The Chronicle of Higher Education*, Sept. 2009
- "A School for Changing the World," in *The Guardian (UK)* (with podcast), Sept. 2009

Annual Conferences

- "Ethics of Data Mining: Media, Privacy and Technology." Invited panelist, Association for Education in Journalism and Mass Communication, Media Ethics Division annual meeting (OH), Mar. 2011
- "Singularity University: Team Projects to Positively Change the World." Panelist, World Future Society annual conference (MA), July 2010
- "Author Meets the Critics: Privacy in Context: Technology, Policy and the Integrity of Social Life." Invited panelist, Association for Practical and Professional Ethics annual meeting (OH), Mar. 2010
- "Accelerating Technologies & the Singularity: Utopian Theory or Utopian Practice?" Society for Utopian Studies annual meeting (NC), Oct. 2009
- "Implications of the Sociotechnical Infrastructures of Virtual Worlds: An STS Perspective." Panel chair and panelist for panel on ICTs, Social Networks, and Communities, Society for Social Studies of Science annual conference (QC), Oct. 2007
- "Implications of the Sociotechnical Infrastructures of Virtual Worlds: An STS Perspective." International Association for Science, Technology & Society annual conference (MD), Feb. 2007
- "Internet Research Ethics & Information Privacy: A Law & Economics Case Study." Panel chair and panelist for panel on Computer Assisted Research, IRBs, and Social Policy, Second International Congress on Qualitative Inquiry, University of Illinois (IL), May 2006
- "Conducting Research in Online Communities." Invited lecture, Association for Practical and Professional Ethics annual meeting (FL), Mar. 2006

- "Matters of Scale and the Scales that Matter." First Conference of the I-School Community, Pennsylvania State University (PA), Sept. 2005 (with C. Knobel & S. Jackson; presented by C. Knobel)
- "Multimedia Citizenship: Community, Democracy, and Digital Media." Invited lecture, Enriching Scholarship annual faculty conference, University of Michigan (MI), May 2003
- "Marketing Service Projects and Volunteer Opportunities to College Students." AmeriCorps All-Member Gathering, Ohio University (OH), July 2001 (with M. Barnard)
- "Building Partnerships with the Community." Tools for Change statewide conference, Wright State University (OH), Mar. 2001

Invited Symposia & Workshops

- "Research Ethics Education in the University: The View from Early Career Faculty." Invited panelist for NSF-sponsored workshop on the Challenge of Research Ethics Education in the University Setting: A Response to NIH and NSF Requirements, Responsible Conduct of Research Educational Consortium, Association for Practical and Professional Ethics (OH), Mar. 2011
- "What Are We Missing?" Invited panelist for NSF-sponsored workshop on Ethical Guidance for Research and Application of Pervasive and Autonomous Information Technology, Poynter Center for the Study of Ethics & American Institutions, Indiana University (OH), Mar. 2010
- "Gaming and Learning." Invited panelist for John Seely Brown Symposium on Technology and Society, School of Information (MI), Oct. 2006
- "Internet Research Ethics & Information Privacy: A Law & Economics Analysis." Invited lecture, Networks Across Disciplines, Rackham Graduate School Interdisciplinary Workshop, University of Michigan (MI), Feb. 2006
- "Service-Learning and Servant Leadership: A Pedagogy for Personal Transformation and Social Change." Antioch University faculty conference, Antioch College (OH), Nov. 2000 (with A. Pagán)
- "Web Site Development for Educators." Full-day professional development workshop for high school faculty and administrators, Robert F. Wagner, Jr. Secondary School for Arts & Technology (NY), Feb. 2000 (with J. Perine)
- "Implementing Educational Technology to Enhance Student Achievement: Strategies for Success." Full-day professional development workshop for high school faculty and administrators, Robert F. Wagner, Jr. Secondary School for Arts & Technology (NY), Nov. 1999
- "ASCAP, BMI, SESAC and the Harry Fox Agency: Organizations that Issue Licenses and Arrange Compensation for Use of Musical Works." Pro bono workshop for musicians, Lawyers for the Creative Arts (IL), Aug. 1992
- "Rights Established through Filing an Intent-to-Use Application under the Trademark Law Revision Act." Invited lecture, Intellectual Property Committee seminar, Chicago Bar Association (IL), Mar. 1992
- "Limitations Placed on Commercial Exploitation of Images by the Rights of Privacy and Publicity." Pro bono workshop for photographers, Lawyers for the Creative Arts (IL), Aug. 1990

Guest Lectures & Seminars

- "Developing a Relationship with Your Mentor." Invited panelist, Doctoral Development Seminar, School of Information (MI), Apr. 2010
- "How SI Doctoral Students Are Using Internships and Institutes to Further Their Own Research." Invited panelist, Featured Information Research Student Talks, School of Information (MI), Sept. 2009
- "Research Methodology Workshop." Invited panelist, Doctoral Development Seminar, School of Information (MI), Apr. 2009
- "Insights on the Institutional Review Board Process from a Board Member's Perspective." Invited lecture, Doctoral Development Seminar, School of Information (MI), Nov. 2007 & Sept. 2008
- "Grantseeking for Graduate Students: Strategies for Funding Doctoral Education." Invited lecture, Doctoral Development Seminar, School of Information (MI), Jan. 2008
- "Collaboration in Virtual Worlds." Invited lecture, Computer-Supported Cooperative Work seminar, School of Information (MI), Nov. 2006 & Nov. 2007
- "The Future of Copyright Policy." Invited lecture, Social Systems and Collections course, School of Information (MI), Nov. 2001
- "International Intellectual Property Rights and Cultural Heritage Resources." Invited lecture, Gender and the Politics of International Development seminar, Antioch College (OH), Feb. 2001

Professional Affiliations

- AmeriCorps Alums
- Anita Borg Institute for Women and Technology
- Arthur Morgan Institute for Community Solutions
- Association for Research on Nonprofit Organizations and Voluntary Action
- Association of Internet Researchers
- Foresight Education and Research Network
- Greenleaf Center for Servant Leadership
- International Association for Research on Service-Learning and Community Engagement
- International Society for Ethics and Information Technology
- Internet Society
- Social Impact Analysts Association
- Woodhull Institute for Ethical Leadership
- World Future Society

Professional Licenses

- Admitted to practice law in the state of Illinois, 1991-present
- Admitted to practice law in federal district court for the northern district of Illinois, 1991-present