CURRICULUMVITAE

Adam K. Fontecchio, PhD
College of Engineering
Drexel University, Philadelphia, PA 19104
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1. CURRENT POSITION

2015 – present Director, Center for the Advancement of STEM Teaching and Learning Excellence
Drexel University, Philadelphia, PA

2. EDUCATION

- PhD, Physics, 2002, Brown University
  Advisor: Prof. Gregory Crawford
  Thesis: Multiplexing Studies of Holographically-formed Polymer Dispersed Liquid Crystals: Morphology, Structure, and Device Applications
- MSc, Physics, 1998, Brown University
- BA, Physics, 1996, Brown University

3. ADMINISTRATIVE APPOINTMENTS

2015-2017	Vice Dean (Founding), Graduate College, Drexel University
2013-2015	Associate Dean for Academic Affairs, College of Engineering, Drexel University
2012-2016	Co-Director, Expressive and Creative Interaction Technologies (ExCITe) Center, Drexel U.
2010-2013	Associate Dean for Undergraduate Affairs, College of Engineering, Drexel University
2008-2010	Assistant Department Head for Undergraduate Affairs, ECE Department, Drexel University
2008-2010	Associate Dean for Special Projects, College of Engineering, Drexel University
2005-2013	Director of Micro/Nano Fabrication, A. J. Drexel Nanotechnology Institute, Drexel University

4. ACADEMIC APPOINTMENTS

2012-present	Professor, Department of Electrical and Computer Engineering, Drexel University
2008-2012	Associate Professor, Department of Electrical and Computer Engineering, Drexel University
2005-present	Affiliated Faculty, Department of Materials Engineering, Drexel University
2002-2008	Assistant Professor, Department of Electrical and Computer Engineering, Drexel University
2002	Adjunct Professor, University of Massachusetts- Dartmouth, Physics Department

5. RESEARCH & PROJECT APPOINTMENTS

2014-present	Co-Director DragonsTeach Institute, Drexel University
2013-2018	Director, Lockheed Martin Engineering Leadership Program, Drexel University
2006-2010	Director of Graduate Fellows, Drexel/NSF GK-12 Program
2003–present	Member, A. J. Drexel Nanotechnology Institute, Drexel University

2003	NASA Summer Faculty Fellowship, NASA Jet Propulsion Laboratory
2002	Adjunct Professor, University of Massachusetts- Dartmouth, Physics Department
2000-2001	NSF Visiting Scientist, Josef Stefan Institute for Liquid Crystals, Ljubljana, Slovenia
1999	Project Manager, *Project Comet Chasers*, RI Council on Education / NASA

6. CONSULTING AND ENTREPRENEURIAL EXPERIENCE

2016-present	President and Founder, DragonSpectral Inc., Philadelphia, PA
2009-present	President and Founder, Fontecchio Consulting, Downingtown, PA
2008-present	Co-Founder and Member, Summalux, LLC., Downingtown, PA
2009-2015	President and Founder, MetaTenna LLC, Exton, PA

7. HONORS AND DISTINCTIONS

- Presidents Award for Diversity and Inclusive Community, Drexel University (2018)
- Selected to Advisory Board for SXSW Edu 2019 (2018, 2019)
- Elected to Leadership Team of Center for Integration of Teaching, Research, and Learning (CIRTL) (1st term: 2017-2018; 2nd term: 2019-present)
- Paper selected for feature on Transactions on Biomedical Engineering website (https://tbme.embs.org/): Li, B., Shi, Y., Fontecchio, A. K., & Visell, Y. "Mechanical Imaging of Soft Tissues with a Highly Compliant Tactile Sensing Array." *IEEE Transactions on Biomedical Engineering*, (2017).
- Presidential Civic Engagement Award for Faculty and Professional Staff for DragonsTeach Program, Drexel University (2016)
- Science Nation Coverage of Biomedical Smart Textiles: "These Smart Threads Could Save Lives" (2016) at https://www.nsf.gov/news/special_reports/science_nation/biomedtextiles.jsp?WT.mc_id=USNSF_51
- Selected as 2015 Delaware Valley Engineer of the Year, Engineers Club of Philadelphia (2015)
- Second Prize, Poster Competition, Middle Atlantic Section of ASEE Annual Meeting (2015)
- Second Prize, Best Student Paper Competition, IEEE BenMAS 2014 Conference
- Nominated for Philadelphia Geek Award, Story of the Year (2014)
- Elected to Vice-Chair position, IEEE Philadelphia Section (2014, 2015)
- Selected to participate in National Academy of Engineering 2011 U.S. Frontiers in Engineering Symposium (2011)
- Printed Antenna research featured in IEEE The Institute May 6, 2011
- Elected to Senior Member, IEEE (2011)
- Shell Eco-Challenge Solar Car Senior Design Team featured in National Geographic, Wired.com, and NBC10 news and website
- Patent selected for publication in NASA Tech Briefs "Dynamic Time Multiplexing Fabrication of Holographic Polymer Dispersed Liquid Crystals for Increased Wavelength Sensitivity" (2011)
- Feature article in *Philadelphia Inquirer*, "Someday a Way to See Nuclear, Chemical Threats" March 29, 2010
- Electrical and Computer Engineering Department Doctoral Mentor Award (2010)
- Paper selected for *Virtual Journal of Nanoscience & Technology* [JAP, 103, 064314, 2008]

- Paper selected for *Virtual Journal of Biological Physics Research* [APL, 90, 103108, 2007]
- Paper selected for *Virtual Journal of Nanoscience & Technology* [APL, 90, 103108, 2007]
- Paper highlighted in Nanotechweb, Nanowerk.com, and Nanomedicine News [APL, 90, 103108, 2007]
- Drexel ECE Outstanding Research Achievement Award (2006)
- Drexel Graduate Student Association Outstanding Mentor Award (2006)
- Paper selected for *Virtual Journal of Nanoscience & Technology* [APL, 89, 043123, 2006]
- Honorary mention for poster titled "Ordering Effects in Liquid Crystal—Carbon Nanotube Composites," American Society for Composites 20th Annual Technical Conference, Philadelphia, September 2005
- International Liquid Crystal Society Multimedia Prize (2004)
- NASA Young Investigator (2004)
- NASA Summer Faculty Fellowship, NASA Jet Propulsion Laboratory (2003)
- NASA Graduate Student Researcher Fellowship, NASA Goddard Space Flight Center (2001)
- NASA Graduate Student Researcher Fellowship, NASA Goddard Space Flight Center (2000)
- Best Poster Award, 18th International Liquid Crystal Conference, Sendai, Japan (2000)
- Best Paper Award, 6th Asian Symposium on Information Display, Xi'an, China (2000)
- Certificate of Special Congressional Recognition, US House of Representatives (2000)
- Citation of Excellence, Rhode Island House of Representatives (2000)
- NSF Summer Institute Fellowship, NTT Cyber Space Laboratories, Japan (2000)
- NSF Fellowship to attend SILC Liquid Crystal School, Slovenia (2000)
- NASA Graduate Student Researcher Fellowship, NASA Goddard Space Flight Center (1999)
- Highly Rated Paper at the Society for Information Display Annual Meeting (1999)
- Recognition Award, National Space Grant and Fellowship Program (1999)
- NASA RI Space Grant Research Fellowship (1998)

8. PROFESSIONAL ORGANIZATIONS

- Institutional Leader, Center for the Integration of Research, Teaching, and Learning (CIRTL)
- Co-Director, UTeach (Drexel representative)
- Senior Member, IEEE
- Member, Council of Graduate Schools
- Member, American Society for Engineering Education (ASEE)
- Member, AAES K-12 Competencies Project (2017 – 2018)
- Member, IEEE USA K-12 STEM Committee (2015 – 2017)
- Vice-Chair, IEEE Philadelphia Section (2014-2016)
- Member, International Liquid Crystal Society (ILCS) (2000 - 2012)

9. STUDENT SUPERVISION

Post Doctoral Students

- Katie Van Aken, Ph.D. (2017 - 2019)
- Jamie Kennedy, Ph.D. (2016 - 2017)

- Andrew Reid, Ph.D. (2005-2007)

Graduate Students Currently Advised

- Ann Sitarz, Ph.D candidate (2022), Drexel University
- Vahideh Abdolazimi, Ph.D candidate (2020), Drexel University
- Marquise Pullen, Ph.D candidate (2019), Drexel University
- Austin Ekeler, M.Sc. Candidate (2019), Drexel University

Doctoral Students Advised to Completion

- Bill Mongan, Ph.D. (2018) Drexel University
    - Currently Teaching Professor & Associate Department Head for Undergraduate Affairs, Department of Computer Science, Drexel University
- Alyssa Bellingham, Ph.D. (2017), Drexel University
    - NSF Graduate Research Fellowship (2013–2016)
    - Currently Assistant Director of Assessment at CASTLE, Drexel University
- Bin Li, PhD (2016), Drexel University
    - Currently Electrical Engineer at Surgisense Corporation
- Yang Gao, PhD (2015), Drexel University
- Brandon Terranova, PhD (2015), Drexel University
    - Currently Assistant Teaching Professor, Drexel University
- Yohan Seepersad, PhD (2015), Drexel University
    - Currently at Lam Research Corporation
- Jamie Kennedy, PhD (2015), Drexel University
    - NSF GK-12 Fellow (2012–2013) DoE GAANN Fellow (2013–2014)
    - Currently Assistant Teaching Faculty, Engineering Educaiton, The College of New Jersey
- Ben Pelleg, PhD, Electrical Engineering (2014), Drexel University
    - NSF GK-12 Fellow (2008–2011)
    - Currently Senior Professional Staff at The Johns Hopkins University Applied Physics Laboratory
- Jared Coyle, PhD, Electrical Engineering (2013), Drexel University
    - NSF GK-12 Fellow (2011)
    - NSF IGERT Fellow (2008, 2009)
    - Currently Enterprise Architect at SAP America
- David A. Delaine, PhD, Electrical Engineering, (2012), Drexel University
    - NSF BRIDGES Fellowship (2005–2007)
    - NSF Graduate Research Fellowship (2007–2010)
    - Fulbright Scholar at University of Sao Paulo, Brazil
    - Currently Assistant Professor, Engineering Education Department, The Ohio State University
- Sameet Shriyan, PhD, Electrical Engineering (2011), Drexel University
    - Drexel COE Engineering Teaching Fellow (2007-2010)
    - Currently at KLA-Tencor in San Jose, CA

- Kashma Rai, PhD, Electrical Engineering (2009), Drexel University
- Anna Fox, PhD, Electrical Engineering (2009), Drexel University
    - National Research Council Postdoc Award at NIST, Boulder
    - NSF Graduate Research Fellowship (2006–2009)
- Michael Ermold, PhD, Electrical Engineering (2006), Drexel University
    - Thesis: Holographic Optical Elements with Electro-optic Control
    - NASA GSRP Fellowship (2003, 2004, 2005)
    - Drexel University Koerner Fellowship (2004, 2005)
    - SPIE Student Research Award (2004)
    - Currently at Coherent, Inc. in Stanford, CT
- Hemang J. Shah, PhD, Electrical Engineering (2007), Drexel University
    - Thesis: Engineered Interfaces for Liquid Crystal Technology
    - Drexel University Hill Fellow (2005)
    - NIST Summer Fellowship (2003)
    - Currently at Qualcomm, Inc. in San Diego, CA

Masters Students Advised to Completion

- Elizabeth Plowman, Ph.D. Program (2015), Drexel University
    - NSF Graduate Research Fellowship (2011–2014)
- Sylvia Herbert, Mechanical Engineering (2014), Drexel University
- Michael Warde, Electrical Engineering (2008), Drexel University
- Joshua R. Freedman, Electrical Engineering (2007), Drexel University
    - NSF IGERT Fellow (2005, 2006)
- William Norman, Electrical Engineering (2007), Drexel University
- Kashma Rai, Electrical Engineering (2006), Drexel University
- Hemang J. Shah, Electrical Engineering (2004), Drexel University

10. EXPERT TESTIMONY (CONSULTING)

- In RE: TFT-LCD (Flat Panel) Antitrust Litigation, Class Action Plaintiffs
    - *United States District Court, Northern District of California, San Francisco Division*
        - May 25, 2011: Expert Witness Report
        - August 3, 2011: Deposition
        - May 22 – 23, 2012: Trial Testimony

- LaserLock Technologies, Inc. v. WS Packaging Group, Inc.
    - *United States District Court, Western District of Pennsylvania*
        - January 2012: Retained as Technical Expert for Plaintiffs
        - April 25, 2012: Declaration for Plaintiffs

- In RE: TFT-LCD (Flat Panel) Antitrust Litigation, Direct Action Plaintiffs

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