

Natasha Patrito Hannon

Educational Developer, Teaching Support Centre
Western University
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ACADEMIC QUALIFICATIONS

- 01/2004 – 05/2008 PhD (Chemistry), Western University, London, ON, Canada
Dissertation Title: Modification of Poly(dimethylsiloxane): Microscale Bioactive Patterning and Robust Bonding
Supervisor: Dr. Peter Norton
- 01/1999 – 04/2003 HBSc (Chemistry), York University, Toronto, ON, Canada

PROFESSIONAL APPOINTMENTS

Educational Development (Western University)

- 10/21XX - present **Adjunct Research Faculty**, Centre for Research on Teaching and Learning in Higher Education, Faculty of Education
- Conceive of and conduct Scholarship of Teaching and Learning research related to graduate professional development and post-secondary science education.
- 05/2008 - present **Educational Developer** (specializing in Science & Engineering education), Teaching Support Centre
- Oversee the Western Certificate in University Teaching and Learning; Coordinate and co-facilitate the Teaching Fellows Program, the Advanced Teaching Program, Teaching Mentor Program, Future Professor Series seminars, Teaching Squares Program, Instructional Skills Workshops and Graduate Studies 9500. Consult with administrators, faculty, graduate students, and other Western stakeholders around issues of curriculum and course design, assessment, and large class teaching. Provide support to departments across campus around the development of program learning outcomes and quality assurance.
- 04/21XX – 12/21XX **Coordinator**, Teaching Assistant Training Program, Teaching Support Centre
- Coordinated nine instructors in the delivery of TATP to approximately 500 graduate students over two academic years. Oversaw scheduling, training, resource development, and instruction.

- 09/21XX – 05/21XX **Educational Resource Developer**, Communication in the Canadian Classroom (Chemistry Edition), Teaching Support Centre
- Videotaped a series of undergraduate Chemistry labs and transcribed the teachable moments to develop digital and textual resources for ITAs about culturally appropriate and pedagogically sound laboratory teaching interactions.
- 05/21XX – 04/21XX **Teaching Assistant Training Program Instructor**, Teaching Support Centre, Western University, London, ON
- Led multiple hands-on, two-and-a-half- day professional development programs for new TAs. Provided instruction about fair grading practices, diversity in the classroom, and active learning. Facilitated micro-teaching.

Chemical Research

- 01/21XX – 05/21XX **Research Assistant**, Chemistry Depart., Western University, London, ON
Supervisor: Prof. Peter R. Norton
- 05/21XX – 08/21XX **Research Assistant**, National Research Council of Canada – Steacie Institute of Molecular Sciences, Ottawa, ON
Supervisor: Dr. Kui Yu
- 05/21XX – 08/21XX **Research Assistant**, National Research Council of Canada – Institute for Chemical and Environmental Process Technology, Ottawa, ON
Supervisor: Dr. Farid Bensebaa
- 09/21XX – 05/21XX **Research Assistant**, York University, Toronto, ON (part-time)
Supervisor: Dr. Sylvie Morin

PUBLICATIONS & PRESENTATIONS

Refereed Publications

Patrito Hannon, N., and Taraban-Gordon, S. (21XX) Two Models for Introducing Graduate Students to the Scholarship of Teaching and Learning. Collected Essays on Learning and Teaching, Volume 3.

Patrito N., McLachlan J., Faria S., Chan, J. and Norton P.R. (21XX) A Novel Metal-Protected Plasma Treatment for the Robust Bonding of Poly(dimethylsiloxane). Lab on a Chip. 7(12): 1813-1815.

Patrito N., McCague C., Norton P.R., and Petersen N.O. (21XX) Spatially Controlled Cell Adhesion via Micropatterned Surface Modification of Poly(dimethylsiloxane). Langmuir. 23(2): 715-719.

Patrito N., McCague C., Chiang S., Norton P.R., and Petersen N.O. (21XX) Photolithographic Surface Modification of PDMS. Photons Technical Review. Spring 21XX: 27-29.

Patrino N., McCague C., Chiang S., Norton P.R., and Petersen N.O. (21XX) Photolithographically Patterned Surface Modification of Poly(dimethylsiloxane) via UV-Initiated Graft Polymerization of Acrylates. *Langmuir*. 22(8): 3453 - 3455.

Bensebaa, F., **Patrino**, N., Le Page, Y., L'Ecuyer, P., and Wang, D. (2004) Tunable Platinum- Ruthenium Nanoparticle Properties using Microwave Synthesis. *Journal of Materials Chemistry*. 14 (22): 3378-3384

Yu, K., Singh, S., **Patrino**, N., and Chu, V. (21XX) Effect of Reaction Media on the Growth and Photoluminescence of Colloidal CdSe Nanocrystals. *Langmuir*. 20 (25): 11161-11168

Professional Publications

Patrino Hannon, N. (21XX) Looking Backward to Move Your Courses Forward: Reflecting on a year of teaching. *Reflections Newsletter, Teaching Support Centre, Western University*, 70: 1-2. (in press)

Patrino Hannon, N. (21XX) Group Work on a Grand Scale: Introducing long-term, collaborative projects into the large class context. *Reflections Newsletter, Teaching Support Centre, Western University*, 67: 6-8.

Patrino Hannon, N. (21XX) Bringing the Scholarship of Teaching and Learning to Your Department Through 4th-Year Thesis Projects. *Reflections Newsletter, Teaching Support Centre, Western University*, 62: 11.

Patrino Hannon, N. (21XX) Appreciation in Trying Times: A positive approach to educational renewal at Western. *Reflections Newsletter, Teaching Support Centre, Western University*, 60: 7.

Patrino Hannon, N. (21XX) The Learning Republic: Fostering civility in the university classroom. *Reflections Newsletter, Teaching Support Centre, Western University*, 58: 1-3.

Refereed Conference Presentations

Patrino Hannon, N., Olsen, K., Haque A. (21XX) Supporting innovative practice in teaching and learning among GTAs: Fuller's Stages of Concern model. *The Society for Teaching and Learning in Higher Education Conference, Kingston, ON (TAGSA Pre-conference workshop, accepted)*

Patrino Hannon, N. (21XX) At our FingerTIPS: Extending the reach of the Teaching Innovation Projects Journal. *Educational Developers Caucus Conference, Calgary, AB (Round Table)*.

Patrino Hannon, N. (21XX) Group work on a grand scale: Introducing long-term, collaborative projects into the large class context. *The Society for Teaching and Learning in Higher Education Conference, Montreal, QC (Pre-conference workshop)*.

Haffie, T., N. **Patrino** Hannon, Jones, F., Bernhardt, T. (21XX) Sustaining innovation in Canadian undergraduate education: a view from science. *The Society for Teaching and Learning in Higher Education Conference, Montreal, QC (Oral)*.

Patrito Hannon, N., Taraban-Gordon, S. (21XX) Two models for introducing graduate students to the scholarship of teaching and learning. The Society for Teaching and Learning in Higher Education Conference, Toronto, ON (Oral).

Patrito N. (21XX) An Untapped Resource: Advanced TAs as discipline-specific SoTL ambassadors. The Society for Teaching and Learning in Higher Education Conference, Fredricton, NB (Oral).

Norton, P. R., **Patrito**, N., McLachlan, J., Chan, J., Faria, S., and Tadayyon, S. (21XX) Patterning and Bonding of Poly(dimethylsiloxane): A Simple New Method for Creating Optically Transparent Biocompatible Surfaces and Robust Microfluidic Devices. AVS 54th International Symposium, Seattle, WA (Oral).

Patrito, N., McLachlan, J., Faria, S., Chan, J. (21XX) Novel Techniques for the Surface Modification of Poly(Dimethylsiloxane): Microscale Bioactive Patterning. EuroMat 21XX, Nuremberg, Germany (Oral).

Le Gros, N., **Patrito**, N. (21XX) Science Labs + ITAS = Communication Conundrum2. Evolving Scholarship. Society for Teaching and Learning in Higher Education Conference, Edmonton, AB (Oral).

Norton, P. R., **Patrito**, N., McLachlan, J., Faria, S., Tadayyon, S., McCague, C. and Petersen, N.O. (21XX) Novel Techniques for PDMS Surface Modification: Microscale Biocompatible Patterning and Robust Bonding. Sixth International Symposium on Polymer Surface Modification: Relevance to Adhesion, Cincinnati, OH (Oral).

Patrito, N. McCague C., Petersen N.O., Norton, P.R. (21XX) Spatially Controlled Cell Adhesion via Micropatterned Surface Modification of Poly(dimethylsiloxane). International Symposium on Polymeric Materials for Regenerative Medicine, Montreal, QC (Oral).

Patrito, N., McCague C., Petersen N.O., Norton, P.R. (21XX) Micropatterned surface modification of PDMS via graft polymerization of acrylates. Nanoforum, Edmonton, AB (Poster).

McCague C., **Patrito** N., Petersen N.O., Norton, P.R. (21XX) Spatially Controlled Cell Adhesion via Micropatterned Surface Roughening of Poly(dimethylsiloxane). Nanoforum, Edmonton, AB (Oral).

Patrito N., McCague C., Petersen N.O., Norton, P.R. (21XX) Spatially Controlled Cell Adhesion via Micropatterned Surface Roughening of Poly(dimethylsiloxane). BioMEMS Gordon Conference, New London, CT (Poster).

McCague C.; **Patrito** N.; Petersen, N.O.; Norton, P.R. (21XX) Development of a device for the mechanical perturbation of extracellular matrix materials. BioMEMS Gordon Conference, New London, CT (Poster).

McCague C., **Patrito** N., Petersen, N.O., Norton, P.R. (21XX) Spatially Controlled Cell Adhesion via Micropatterned Surface Roughening of Poly(dimethylsiloxane). Surface Canada, Kingston ON (Oral).

Patrito, N., McCague, C., Chiang S., Petersen, N.O., Norton, P.R. (21XX) Micropatterned surface modification of PDMS via graft polymerization of acrylates. Surface Canada, Kingston, ON (Oral).

Patrino N., Chiang, S., Norton, P.R. and Petersen, N.O. (2005) Micropatterned Surface Modification of Polydimethylsiloxane via UV-Initiated Graft Polymerization of Acrylates, AVS 52nd International Symposium, Boston, MA (Poster).

Patrino, N., Chiang, S., Norton, P.R., and Petersen, N.O. (21XX) Surface Modification of Polydimethylsiloxane via UV-Initiated Graft Polymerization of Acrylates. 88th Canadian Society for Chemistry Conference and Exhibition, Saskatoon, SK (Poster).

Patrino, N., McCague, C., Dejong K., Norton, P.R., Petersen, N.O. (21XX) Fabrication of Grid Components toward the Development of a Nanomechanical Extracellular Matrix Perturbation Device. Annual Ontario Photonics Meeting, Hamilton, ON (Poster).

Patrino, N., Chiang, S., Norton, P.R., and Petersen, N.O. (21XX) Surface Modification of Polydimethylsiloxane via UV-Initiated Graft Polymerization of Acrylates. Western Institute for Nanomaterials Science Inaugural Workshop, London, ON (Poster).

Chiang, S., **Patrino**, N., Norton, P.R., and Petersen, N.O. (21XX) Patterned Modification of Polydimethylsiloxane via UV-Initiated Graft Polymerization of Methacrylic Acid. 33rd Southwestern Ontario Undergraduate Student Chemistry Conference, Toronto, ON (Oral).

Patrino, N., DeJong, K., Norton, P.R., Petersen, N.O. (21XX) Quantifying the Interactions of Cell Integrins with Fibronectin. 7th Annual Chemistry and Biochemistry Graduate Research Conference, Montreal, QC (Oral).

Patrino, N. and Stynes, D.V. (21XX) Synthesis and characterization of novel chiral Fe(II) monoximate and difluoro(monoximate)borate complexes. 42nd General Assembly of the International Union of Pure and Applied Chemists, Ottawa, ON (Poster).

Invited Presentations

Patrino Hannon, N. (21XX). The (Marking) Key to Success: Using rubrics in the University context. Spring Perspectives on Teaching Conference, Western University, London, ON.

Patrino Hannon, N. (21XX). Group Work on a Grand Scale: Introducing long term, collaborative projects into the large class context. Fall Perspectives on Teaching Conference, Western University, London, ON.

Patrino Hannon, N. (21XX). "I Rest My Case": Implementing case studies in Science and Engineering. Spring Perspectives on Teaching Conference, Western University, London, ON.

Patrino Hannon, N. (21XX). So What Are You Going to Do With That? Careers outside of academia. Graduate Career Day, Western University, London, ON.

Patrino Hannon, N. (21XX). CEAB Accreditation: Setting the stage locally, nationally and internationally. Faculty of Engineering, Western University, London, ON.

Patrino Hannon, N. (21XX). Drawing Them In: Strategies for effective poster design and presentation. Schulich School of Medicine & Dentistry, Western University, London, ON.

TEACHING & FACILITATION EXPERIENCE

- 05/21XX **Great Teachers Seminar** (coordinator & co-facilitator), Western University [professional certificate course for faculty]
- A 3-day, intensive peer-based program, grounded in the belief that the collective wisdom of practicing educators is far greater than that of any one expert. Seminar participants engage in a learning process of shared information and experiences, self-reflection, and action planning as they explore a variety of teaching strategies, innovations, instructional challenges, and solutions.
- 09/21XX –present **GS 9500 – Theory and Practice of University Teaching** (coordinator & co-instructor), Western University [1.0 credit graduate course]
- An interdisciplinary course on the theory and practice of university teaching. Students a) critically reflect on contemporary issues in higher education, b) refine and practice their teaching skills in a supportive environment, c) develop and implement active learning experiences, d) craft a teaching philosophy statement guided by personal beliefs, values, and disciplinary contexts, and e) make decisions about lesson and course design that are informed by contemporary educational literature.
- 12/21XX -present **Instructional Skills Workshop** (coordinator & facilitator), Western University [professional certificate course for faculty]
- Intensive three-day professional development opportunity allowing faculty to explore conditions giving rise to powerful learning experiences among students.
- 08/21XX **Instructional Skills Workshop Facilitator Development Workshop** (trainer), Western University [professional certificate course for faculty]
- Training program to prepare and certify ISW facilitators.
- 01/21XX – 05/21XX **ES 1021G – Environmental Issues** (instructor), Environmental Sciences Program, Western University [0.5 credit course]
- 01/21XX – 05/21XX
- Explores the science underlying environmental issues including climate change, waste management, endangered species and spaces, air and water quality, and ecosystem health, from a variety of perspectives.

Guest Lectures (Western University)

- Chemistry 4400 Current Topics in Chemistry: Ethics in physical science research (21XX – 21XX)
Scholars' Electives Module: Academic poster design (21XX – 21XX)
Visual Arts 9600a PhD Seminar in Theory and Methods: Effective Course Design (21XX)
GS 9565 Introduction to Teaching and Learning in Anatomy: Effective Course Design (21XX)

Teaching Assistantships (Western University)

Physical Chemistry 284 (21XX)

Introductory Chemistry 020/023 (21XX & 21XX)

Analytical Chemistry 322 (21XX)

Selected Teaching and Learning Workshops (Western University)

- From Limited Duties to Standing Appointment: Knowing the process and effectively documenting your teaching (21XX)
- Teaching Awards: Developing Successful Nominations (21XX)
- A Look Back: Leading Effective Exam Review Sessions (21XX)
- Strategies that Work: Teaching in the Sciences (21XX)
- At the Heart of it All: Developing Effective Learning Outcomes (21XX)
- Fostering Active Learning in the Classroom (21XX)
- How Do You Know They've Learned It? Formative Evaluations to Assess Student Understanding (21XX)
- Teaching Your Own Course (21XX)
- Developing an Effective Course Syllabus (21XX)
- 'Demo'graphy: Demonstrations as effective teaching tools in the science classroom(21XX)
- Writing a Teaching Philosophy Statement (21XX)
- Getting Feedback on your Teaching (21XX)
- Building an Effective Grad Student-Supervisor Relationship (21XX)
- Maximizing Student Learning from Group Projects: Getting students started (21XX)
- Facilitating Online Learning (21XX)
- Flipping Problem Solving on its Head: New Problem Sets to Enhance Learning and Motivation (21XX)
- Strategies for Marking Essays (21XX)

CURRICULUM DEVELOPMENT

Patrito Hannon, N. and White, B. (21XX) Effective instructional approaches for outreach TAs. Co-developer/coordinator of an 8-hr orientation and training workshop for the Centre of Planetary Sciences and Exploration, Western University.

Patrito Hannon, N. (21XX) ES 1021: Environmental Issues. Redeveloped the curriculum for this undergraduate course of 350 students to include a number of best practices in blended learning and science education. Incorporated a semester-long group project, culminating in 65 public presentations in the University Community Centre. Awarded the 2010 Western Green Award for raising awareness about environmental issues. Environmental Sciences program, Western University.

Patrito Hannon, N. (21XX) Teaching Master Classes. Adapted from a program of the same name at Indiana University, Master Classes invite graduate students to step into the classrooms of Western's most respected and innovative instructors and observe them engaging with their undergraduate students, their course material, and their discipline. Following the in-class observation, participants meet with these instructors to discuss the strategies they employ in their classrooms. Teaching Support Centre, Western University.

Patrigo Hannon, N. and Dimitrov, N. (21XX) The Art of Giving Feedback. Co-developer of a 3- module workshop for graduate TAs in the visual arts on the delivery of effective feedback. Teaching Support Centre, Western University.

Patrigo Hannon, N. (21XX) The Advanced Teaching Program. Developed a 30-hour workshop for advanced graduate students seeking to develop the skills necessary to design and instruct their own courses. The program touches on a number of topics, including ‘Backward’ course design, developing a culture of respect in the classroom, and authentically assessing student learning. Participants also gain hands-on teaching experience in video-recorded microteaching sessions. Teaching Support Centre, Western University.

GRANTS AND AWARDS

- 21XX At Our FingerTIPS – Extending the reach of the Teaching Innovation Projects journal, Educational Developers Caucus Grant; Principle Investigator – Natasha Patrigo Hannon | Co-Investigator – Nadine LeGros | Total Grant \$2,486 for the period of 21XX /21XX.
- 21XX Western Green Award – Awarded for instructional innovations to ES 1021 (Environmental Issues), Western University.
- 21XX Mapping Canadian SoTL Initiatives with a Focus on Graduate Students, Educational Developers Caucus Grant; Principle Investigator – Svitlana Taraban-Gordon | Co-Investigator – Natasha Patrigo Hannon | Total Grant \$2,500 for the period of 21XX /21XX.
- 21XX Conference Travel Grant from the Centre for Chemical Physics, Western University.
- 21XX Faculty of Science Graduate Student Teaching Award, Western University.

SCHOLARSHIPS

- 21XX - 21XX Canada Graduate Scholarship D, Natural Sciences and Engineering Research Council of Canada (\$70,000)
- 21XX -21XX Graduate Tuition Scholarship, Western University (\$12,000)
- 21XX Special University Scholarship, Western University (\$2,000)
- 21XX Christian Sivertz Prize, Western University (\$2,500)
- 21XX Cara Platinum Scholars Award, Cara Operations Ltd. (\$5,000)
- 21XX - 21XX Post-Graduate Scholarship A, Natural Sciences and Engineering Research Council of Canada (\$34,800)
- 21XX - 21XX Women in Engineering and Science Internship, National Research Council (\$33,000)
- 21XX - 21XX President’s Scholarship, York University (\$22,000)
- 21XX Merit Scholarship, York University (\$2,000)
- 21XX Faculty of Pure and Applied Science Scholarship, York University (\$6,000)

PROFESSIONAL TRAINING AND CERTIFICATION

21XX	Trainer Development Workshop for ISW, Western University, London, ON
21XX	Inquiry Facilitators Training, University of North Carolina - Asheville, NC
21XX	Facilitators Development Workshop for ISW, Ryerson University, Toronto, ON
21XX	Instructional Skills Workshop (ISW), Brock University, St. Catharines, ON
21XX	Case Study Teaching in Science Workshop, National Centre for Case Study Teaching in Science, SUNY Buffalo, NY
21XX	Graduate Studies 500: Theory and Practice of University Teaching (Pass with Distinction), Western University, London, ON

ACADEMIC AND SCHOLARLY ACTIVITIES

Supervision

- Brittany Dakins, Social Media Development in the Teaching Support Centre, Intern – Faculty of Information and Media Studies, 21XX
- Steffi Boyce, Examination of Chemistry 1050 Student Attitudes, Experiences and Performance, 4th Year Thesis Research Project, Chemistry Department, 21XX
- Sarah Faria, A novel metal-protected plasma treatment for the robust bonding of poly(dimethylsiloxane), Summer NSERC Research Student, 21XX

University Committees

- Member, AODA and Course Content Working Group, 21XX
- Member, Copyright Steering Committee, 21XX
- Ex-officio member, Graduate Education Council, 21XX
- Ex-officio member, Subcommittee on Program Review – Graduate, 21XX

Conference Organizing Committees

- Co-chair, Western Conference on Science Education, 21XX & 21XX
- Member, Western Conference on Science Education, 21XX

Editor-in-Chief of Refereed Publication

- Teaching Innovation Projects Journal, Teaching Support Centre, Western University (21XX - present)

Professional Organizations and Societies (Member)

- Society for Teaching and Learning in Higher Education (21XX - present)
- Educational Developers Caucus (21XX - present)
- Professional and Managerial Association, Western University (21XX – present)