

# PREM NICHANI

## Professional Summary

My name is Prem Nichani and I am a first year medical student at the University of Toronto. I am diligently exploring various specialties within the medical field to determine how I will shape my future career. I am a detail-oriented and professionally responsible individual who has had the opportunity to be involved in translational research projects at Wilfrid Laurier University, the University of Toronto, and Columbia University. I have learned to communicate well with patients during my time as a volunteer at SickKids and Grand River Hospital. I have also been involved in numerous leadership roles in student governance since high school and in the owning and operating of a business. These experiences have led me to understand that I am looking for a career that balances leadership, translational research, and medicine to build strong patient-physician relationships. I am excited and ready to learn to bring the best of myself out.

## Contact

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## Laboratory Skills

- Auto-Induction and Bacterial Culture
- BCA, Bradford, & Lowry Protein Assays
- Centrifugation and Fractionation
- Circular Dichroism
- DNA Transformation and RE Digest
- Flow Cytometry
- Immunocytochemistry
- NADH Oxidase Assay
- Plasmid DNA Isolation and Purification
- PCR and Primer Design
- Protein Expression and Purification
- Quantitative RT-PCR
- Scientific Writing
- SDS-PAGE and Western Blotting

## EDUCATION

**Doctor of Medicine (MD) Candidate**  
University of Toronto, Toronto, ON, Canada

AUG 2017 — PRESENT

**Honours Bachelor of Science in Health Sciences, HBSc**  
Wilfrid Laurier University, Waterloo, ON, Canada

SEP 2013 — JUNE 2017

- Cumulative GPA: 3.99
- Thesis Title: Exploring negative experiences with mental health care providers among a LGB population: Insights from the OutLook Study
- Publications: 3 first-author posters and abstracts, 1 third-author textbook chapter; presented at Canadian Sex Research Forum Quebec (2016) and Laurier Research Day (2017)
- Scholarships: Alumni Gold Medal for the Faculty of Science (2017), Health Sciences Academic Excellence Award (2017), Dean's Honour Roll (2014-2017), Laurier In-Course Scholarship C (\$4500; 2014-2016), Faculty of Science Undergraduate Scholarship (\$500; 2016), SPRING Residence Academic Award (2014), NSERC USRA (\$4500; 2014), Undergraduate Entrance Scholarship (\$2000; 2013)

## WORK EXPERIENCE

**Consultant and Web Developer**  
i2i Opticians, Toronto, ON, Canada

MAY 2014 — PRESENT

- Entering and updating confidential client and patient files.
- Developing and maintaining a cohesive website to improve business visibility and revenue.
- Assisting with technical and security system concerns.

**Founder and CEO**  
Six Side Entertainment Inc., Toronto, ON, Canada

FEB 2011 — PRESENT

- Established and operating an entertainment company offering DJ and photography services.
- DJ'ed private and corporate events (weddings, proms, conferences, holiday parties, and club events) attended by up to 900 guests.
- Ability to DJ while reading the crowd and consistently keeping guests on the dance floor.
- Experience mixing the following genres during live performance: top 40/mainstream, house electro, dubstep, trap, bhangra, and Bollywood, just to name a few.
- 300+ hours of training with renowned DJs and producers including Jason (DJ Shine) Spanu (the current live Ableton producer of Nelly Furtado and in the past has produced for Kreesha Turner, Drake, and Ke\$ha), Corey Anthony at The Music Boxx DJ School in Toronto, and Scratch Lab DJ Institute in Toronto for both DJing and production courses.
- Resident DJ who entertained students at university on-campus club mixing a wide variety of music and successfully filling the nightclub dance floor to full capacity.
- Focused on a re-branding strategy for service expansion along side the COO.
- Achieved 1000% growth in the business in the 2017 fiscal year.

**Undergraduate Teaching Assistant (Org. Chem. & Intro. Bio.)**  
Wilfrid Laurier University, Waterloo, ON

SEP 2015 — APR 2017

- Ran weekly interactive tutorials, taught students the importance of literature review, and assisted with concepts from lectures.
- Supervised students in a undergraduate organic chemistry laboratory setting to ensure the safety of students, provided aid in setting up apparatus, and clarified any concepts to help students understand the purpose of each experiment.
- Marked hand-in assignments, ensuring consistency and fairness in marking.
- Held office hours provide students with course work assistance, additional curricular support, and performed invigilating duties.
- Proctored during exam periods, problem solved and delegated tasks to maximize and efficiently serve needs of students and faculty.
- Developed strong communication skills while speaking to, mentoring, and assessing the assignments of students.

**Pathology and Cell Biology Intern**

JUL 2016 — AUG 2016

Dr. Mahesh Mansukhani, Columbia University Medical Centre, New York, NY, United States

- Worked with the Personalized Genomic Medicine team.
- Attended weekly rounds in which genetic screening results from whole exome sequencing (WES), Sanger, and southern blotting results for current patient cases (paediatric and adults) were discussed to find a cause for their deleterious, highly metastatic, and constantly recurring cancers to find suitable treatments for these patients.
- Analyzed and sorted files for drug resistance, gene fusions, mutations, and copy number.
- Assisted standard operating procedures (SOPs) revisions for WES and cancer WES.
- Reviewed an oncology assay protocol for approval by the New York State Department of Health and the College of American Pathologists.

## Sunnybrook Research Institute (SRI) Davis+Henderson Research Assistant

MAY 2015 — AUG 2015

Dr. Shlomit Kenigsberg and Dr. Clifford Librach, CReATe Fertility Clinic, Toronto, ON, Canada

- Investigated the expression of LIFR and its signalling pathway in populations of high ovarian reserve (HOR) vs control normal ovarian reserve (NOR) patients and relation to cell differentiation as a potential biomarker for reduced implantation rates in infertile women undergoing IVF.
- Participated in weekly lab meetings, communicating progress on the research project.
- Publications: Two first-author posters and abstracts; presented at SRI (2015) & UofT Department of OBGYN Research Day (2016)

## NSERC Undergraduate Student Research Assistant

MAY 2014 — AUG 2014

Dr. Matthew Smith, Wilfrid Laurier University, Waterloo, ON, Canada

- Conducted experiments for structure-function analysis of the M-domain of atTOC159 when expressed in bacteria membrane of *Escherichia coli* via auto-induction, IMAC purification, lipid analysis, protein analysis, and enzyme activity assays.
- Kept an up-to-date lab notebook for future reference in order to accurately replicate experiments to obtain previous results.
- Publications: One third-author poster and abstract; presented at Protein Symposium in Barcelona (2015)

## VOLUNTEER EXPERIENCE

### Child Life Volunteer

AUG 2011 — OCT 2017

The Hospital for Sick Children, Toronto, ON, Canada

498 Hours

[Emergency](#), [Special Events](#), [Neurology/Trauma](#), [Haematology/Oncology](#), [General Surgery](#), [General Paediatrics](#), [Critical Care Unit](#)

- Provided recreational pursuits and pastimes to lessen anxiety associated with hospitalization.
- Assisted patients with fine motor development and offered support via creative diversions to comfort a child after a stressful procedure.
- Offered respite to parents who required a well-deserved rest period from the unit.
- Collaborated with the medical team by completing various administrative tasks from filing confidential patient files to preparing organized flowcharts to assisting the nurses and doctors by giving them easier access to already labelled patient logs to record vital signs, medications prescribed, and procedures.

### Optometrist Assistant

JUN 2014 — JUL 2014

Dr. Abdel Karim Mostafa, OD, Toronto, ON, Canada

20 Hours

- Assisted with setting up and cleaning optometric equipment (phoropter, tonometer, and keratometer) for patient use.
- With supervision, assisted in taking patient histories and answered any general questions they may have had regarding their visit.
- Shadowed optometrist during routine eye examinations for both children and adult patients.

### Emergency Department Volunteer

MAY 2014 — AUG 2014

Grand River Hospital, Waterloo, ON, Canada

42 Hours

[Emergency Department](#), Supervisor: [Suzan Entz \(May to August 2014 – 42 Hours\)](#)

- Engaged and provided supportive and positive social interaction to patients who may have been entering a stressful time in their lives.
- Supported nursing staff, administrative clerks, paramedics, security, and police officers by performing various tasks so that they would be able to spend more time with the patient rather than performing petty tasks such as urine sample kit preparations.
- Porterred patients around the hospital for x-rays, MRIs, CT scans, surgery, and childbirth.
- Promoted hospital events to both patients and the local community.

### Doctor's Administrative Assistant and Keratometer Operator

FEB 2010 — JUL 2013

Dr. Al Buckridan, MD, Toronto, ON, Canada

120 Hours

- Performed administrative tasks, entered, and filed confidential patient documents.
- Operated an auto-refractor (keratometer) for patient pre-examination vision testing.

## NOTABLE EXTRA-CURRICULARS

### Co-Class President, 2T1 Class Council

OCT 2015 — PRESENT

University of Toronto, Toronto, ON, Canada

- Leading a team of 40 executives toward enriching the experience for the 261 undergraduate medical student body in the 2T1 class
- Representing the interests of the class by addressing student concerns regarding curricular or infrastructural issues arising in the new UofT Foundations curriculum with faculty and senior administration.
- Presenting as a voting member of the Medical Society's Executive Council in general meetings.
- Responsible for communicating academic and social updates to the class via email, social media, and other means.
- Sitting on the Aikins Awards Committee which awards faculty for their teaching performance in the UofT undergraduate medical program.
- Acting as co-signing officers on financial accounts and assisting with preparation of the budget.

### President and Chair, Faculty of Science Students' Association (FOSSA)

MAY 2015 — APR 2016

Wilfrid Laurier University, Waterloo, ON, Canada

- Led a team of 9 executives towards common goals in the execution of events and meetings where topics to enrich the undergraduate careers of students in the faculty of science at Laurier were discussed.
- Oversaw a \$113K budget to provide 3600 students with opportunities for academic advancement, social networking, and research.
- Collaborated with faculty and senior administration in the planning and execution of novel ideas:
  - Encouraged student involvement in undergraduate research with a supervising professor at the university with \$45,000 of undergraduate research scholarships and laboratory supplies funding to subsidize the cost of chemicals, reagents, equipment, and software.
- Designed, developed, and updated FOSSA.ca to keep the science students informed regarding future events and opportunities.
- Liaisoned between the Wilfrid Laurier University Students' Union in order to keep the students and faculty informed.
- Planned, attended, and actively participate in weekly executive team meetings.
- Planned an end-of-the-year Science Formal with record-breaking attendance of 350 guests.