

# PETER ZHANG

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## Education

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**Rotman School of Management**, University of Toronto

*Master of Business Administration, 2020 – 2022*

**Leslie Dan Faculty of Pharmacy**, University of Toronto

*Doctor of Pharmacy with Honours, 2017 – 2021*

**Faculty of Arts & Science**, University of Toronto

*Honours Bachelor of Science with High Distinction, 2013 – 2017*

## Professional Experience

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**The Janssen Pharmaceutical Companies of Johnson & Johnson**, Toronto, Canada

Marketing Associate Intern | May 2021 – August 2021

- Led the creation of competitive messaging assets and the development of marketing strategies
- Led the analytics of sales data and the launch of a data utilization strategy
- Therapeutic Area: Dermatology

**Whole Health Pharmacy Partners**, Toronto, Canada

Business Development Consultant | October 2019 – March 2020

- Advanced two request for proposal submissions with a team of lawyers, architects, and pharmacists to acquire two outpatient pharmacy sites

## Leadership & Innovation

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**3DPPE GTHA**, Toronto, Canada

Co-Founder | March 2020 – December 2020

- Led a team of medical and pharmacy students to organize a grassroots initiative that supplied 25,000 3D-printed face shields to 167 healthcare facilities during the COVID-19 pandemic
- Led the recruitment of volunteers, 3D printers, laser cutters, printing filaments, and acetate sheets to enable manufacturing, assembly, sanitation, and delivery

**New College, University of Toronto**, Toronto, Canada

Lead Residence Don | September 2020 – December 2020

Residence Don | September 2017 – April 2020

- Mentored 120 undergraduate students of diverse backgrounds in academics and professional development
- Ensured a safe and inclusive community through para-counselling, non-violent crisis intervention, and suicide prevention

**First Year Learning Communities, University of Toronto, Toronto, Canada**

Senior Peer Mentor | May 2016 – April 2017

Peer Mentor | September 2014 – May 2016

- Organized and facilitated the training of 50 student mentors
- Developed bi-weekly academic and developmental programs for undergraduate students

## Research Experience

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**The Reach Alliance, Munk School of Global Affairs and Public Policy, New Delhi, India**

Researcher | April 2018 – March 2020

- Conducted semi-structured interviews with experts in Canada and India to study polio elimination in Uttar Pradesh and Bihar
- Presented research findings at the 26<sup>th</sup> Canadian Conference on Global Health
- Supervisors: Dr. Anita M. McGahan & Dr. Joseph Wong

**Leslie Dan Faculty of Pharmacy, Toronto, Canada**

Project Researcher | September 2019 – January 2020

Lab Assistant | September 2018 – September 2019

- Investigated the role of JMJD6, RBM39 in alternative splicing pathways mediated by the glucocorticoid receptor and the ARGLU1 protein
- Generated cell lines with knockouts of JMJD6, RBM39, and ARGLU1 using siRNA technology
- Conducted laboratory techniques including PCR, qPCR, western blot, protein extraction, DNA extraction, RNA extraction, and gel electrophoresis
- Supervisors: Dr. Florian Le Billan & Dr. Carolyn Cummins

**University of York, York, United Kingdoms**

Project Researcher | May 2017 – August 2017

- Conducted laboratory techniques including cell staining, flow cytometry and RNA extraction
- Harvested magnetically isolated monocytes from bone marrow samples to investigate monocyte activation in *Leishmaniasis donovani* infection
- Supervisors: Dr. Audrey Romano & Dr. Paul Kaye

**Temerty Faculty of Medicine, Toronto, Canada**

Undergraduate Researcher | September 2016 – August 2017

- Conducted laboratory techniques including qPCR, genotyping, ELISA, and RNA extraction
- Harvested bone marrow cells from mice specimens for dendritic cell differentiation to investigate signalling pathways relevant to Crohn's Disease
- Supervisors: Dr. Dave Prescott & Dr. Dana Philpott

**Ontario Institute for Studies in Education, Toronto, Canada**

Undergraduate Researcher | May 2014 – September 2015

- Administered psychometric assessments for students in elementary schools
- Analyzed quantitative data through the SPSS software to compare French reading acuity between bilingual and multilingual students in French immersion schools
- Supervisor: Dr. Becky Chen-Bumgardner

## Teaching Experience

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### **University of Toronto, Toronto, Canada**

Guest Lecturer | September 2017 – Present

- Lectured in HMB312 (Laboratory in Health and Disease) on the topic of “Microbiology in the Clinical Setting”
- Lectured in NEW106 (Science, Health and Social Justice) and NEW116 (Science and Global Threats) on topics of “Vaccinations and Autism” and “Antimicrobial Stewardship”

### **Rotman School of Management, Toronto, Canada**

Scholar | August 2021 – Present

- Teach and support students in RSM1250 (Managing Customer Value) by leading tutorial seminars on the subject of marketing strategy

### **Leslie Dan Faculty of Pharmacy, Toronto, Canada**

Clinical Instructor | August 2021 – Present

Pharmacy Lab Teaching Assistant | March 2018 – August 2021

- Assessed students enrolled in the International Pharmacy Program on receiving verbal prescriptions and the provision of patient medication counselling

### **Leslie Dan Faculty of Pharmacy, Toronto, Canada**

Scholarship of Teaching and Learning Research Assistant | April 2020 – October 2020

- Developed online learning modules to prepare pharmacists for minor ailment prescribing

### **City of Markham, Markham, Canada**

Program Instructor | January 2012 – May 2017

- Instructed high school students on leadership, professionalism, and conflict resolution
- Instructed preschool students in verbal and written French

## Clinical Experience

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### **Southlake Regional Health Centre, Newmarket, Canada**

Clinical Pharmacist | August 2021 – Present

Intermediate Pharmacy Practice Experience | June 2019 – August 2019

System Technician Intern | June 2018 – August 2018

- Conducted medication reconciliation on patient admissions, transfers, and discharges
- Implemented drug therapy interventions for inpatients in the intensive care unit
- Presented a seminar on the clinical presentation and treatment options for necrotizing fasciitis
- Transferred procedural and medication information from McKesson Horizon Surgical Manager to Meditech for the creation of surgical preference cards

### **Canadian Armed Forces, Toronto, Canada**

Advanced Pharmacy Practice Experience | July 2020 – August 2020

- Developed a protocol to guide the closure of military pharmacies through literature reviews and semi-structured interviews with pharmacy operations experts

**Northwest Telepharmacy Solutions, Toronto, Canada**

Advanced Pharmacy Practice Experience | June 2020 – July 2020

- Provided clinical care to patients in long-term care facilities and the Weeneebayko Area Health Authority in Moose Factory by providing pharmaceutical opinions in remote medication reviews

**Pack4U, Toronto, Canada**

Advanced Pharmacy Practice Experience | May 2020 – July 2020

- Provided pharmaceutical opinions and clinical recommendations in remote medication reviews enabled by telepharmacy services and in-home dispensing technology

**University Health Network, Toronto, Canada**

Advanced Pharmacy Practice Experience | February 2020 – March 2020

- Adjudicate the appropriateness of antimicrobial use in patients admitted to the neurological intensive care unit at Toronto Western Hospital

**Sunnybrook Health Sciences Centre, Toronto, Canada**

Advanced Pharmacy Practice Experience | January 2020 – February 2020

- Conducted medication reconciliation on patient admissions, transfers, and discharges
- Provided medication counselling for patients receiving chemotherapy and implemented drug therapy interventions for inpatients in the medical oncology unit
- Presented a seminar on infliximab as a treatment for immunotherapy-induced diarrhea

## Advocacy & Community Contributions

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**Canadian Society of Hospital Pharmacists, Toronto, Canada**

Membership Committee | April 2019 – January 2020

Communications Committee | January 2018 – April 2019

- Organized a membership drive to encourage student engagement with hospital pharmacy
- Published a monthly column in the school newspaper to share best practices from hospital pharmacists

**Undergraduate Pharmacy Society, Toronto, Canada**

Webmaster | April 2018 – April 2019

Class Webmaster | September 2018 – April 2018

- Developed PHP scripts for the execution of elections, council sales, and charity auctions
- Reviewed course changes as a member of the Curriculum and Assessment Committee

**New College Student Council, Toronto, Canada**

Speaker | June 2017 – April 2018

Graduating Year Representative | May 2016 – April 2017

Social Director | April 2015 – May 2016

- Chaired meetings of the council and facilitated debate in accordance to Robert's Rules of Order
- Coordinated large-scale social events with over 200 attendees by leading the recruitment of volunteers, the planning of logistics, and the safety of students
- Negotiated contracts with transportation, venue, and photography providers
- Managed and operated on a budget of \$60,000

**Mackenzie Health Richmond Hill Hospital, Vaughan, Canada**

Information Desk Volunteer Supervisor | June 2010 – May 2017

Emergency Department Volunteer | June 2015 – August 2015

- Trained and supervised student volunteers at the information desk
- Transported patient specimens from clinical floors to the laboratory

**New College Orientation, University of Toronto, Toronto, Canada**

General Planning Executive | May 2016 – September 2016

Director of Training & Scheduling | May 2015 – September 2015

Orientation Leader | April 2014 – September 2014

- Facilitated the hiring and training of 120 student leaders
- Organized the logistics of large-scale events for the orientation of first-year students

**University of Toronto Students' Union, Toronto, Canada**

Board of Directors | May 2015 – May 2016

- Elected to the Bursary & Grants committee and the Elections & Referenda Committee
- Appointed to the Executive Director and Deputy Returning Officer hiring committees

## Writing Experience

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**Poets & Quants, Toronto, Canada**

Columnist | August 2021 – Present

- Publish monthly articles for prospective MBA students and the wider business school community

## Peer Reviewed Publications

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Daud, A., Hussein, I. M., **Zhang, P. C.**, Ahmed, Y., Trac, J., Vujovic, N., Rizvi, S. F., & Kuzyk, P. R. (2021). 3D-Printed personal protective face shields during the covid-19 pandemic: A survey of Canadian frontline workers. *Cureus*. <https://doi.org/10.7759/cureus.18141>

**Zhang, P. C.** (2021). The future of pharmacy is intertwined with digital health innovation. *Canadian Pharmacists Journal / Revue Des Pharmaciens Du Canada*. <https://doi.org/10.1177/17151635211044474>

Bellatin, A., Hyder, A., Rao, S., **Zhang, P. C.**, & McGahan, A. M. (2021). Overcoming vaccine deployment challenges among the hardest to reach: Lessons from polio elimination in India. *BMJ Global Health*, 6(4), e005125. <https://doi.org/10.1136/bmjgh-2021-005125>

**Zhang, P.C.**, Ahmed, Y., Hussein, I.M. et al. Optimization of community-led 3D printing for the production of protective face shields. *3D Print Med* 6, 35 (2020). <https://doi.org/10.1186/s41205-020-00089-y>

## Selected Publications

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Ahmed, A., & **Zhang, P.** "As election day looms, voters have the chance to be heard on the federal funding of health care". *The Toronto Star*. Published September 10, 2021, from <https://www.thestar.com/opinion/contributors/2021/09/10/as-election-day-looms-voters-have-the-chance-to-be-heard-on-the-federal-funding-of-health-care.html>.

Ahmed, A., & **Zhang, P.** "To move beyond the pandemic, Canada needs to look globally". *The Hill Times*. Published July 29, 2021, from <https://www.hilltimes.com/2021/07/29/to-move-beyond-the-pandemic-canada-needs-to-look-globally>.

**Zhang, P.** "Prioritize one-shot COVID-19 vaccines for the hard to reach". *Toronto Star*. Published April 7, 2021, from <https://www.thestar.com/opinion/contributors/2021/04/07/prioritize-one-shot-covid-19-vaccines-for-the-hard-to-reach.html>.

**Zhang, P.**, & Hu, M. "Mobilizing pharmacists is key to immunization success". *The Hamilton Spectator*. Published March 5, 2021, from <https://www.thespec.com/opinion/contributors/2021/03/05/mobilizing-pharmacists-is-key-to-immunization-success.html>.

**Zhang, P.**, & Ahmed, Y. "Cyberchondria: An unexpected side effect of digitizing medical information". *Toronto Star*. Published February 16, 2021, from <https://www.thestar.com/opinion/contributors/2021/02/16/cyberchondria-an-unexpected-side-effect-of-digitizing-medical-information.html>.

Bala, S., **Zhang, P.** "To win against COVID-19, we must put vaccine hesitancy behind us". *Ottawa Citizen*. Published January 4, 2021, from <https://ottawacitizen.com/opinion/bala-and-zhang-to-win-against-covid-19-we-must-put-vaccine-hesitancy-behind-us>.

**Zhang, P.** "Naloxone needs to be in hands of as many people as possible". *The Windsor Star*. Published October 4, 2020, from <https://windsorstar.com/opinion/letters/guest-column-naloxone-needs-to-be-in-hands-of-as-many-people-as-possible>.

**Zhang, P.** "It's time to normalize suicide prevention training at the workplace". *Toronto Star*. Published August 27, 2020, from <https://www.thestar.com/opinion/contributors/2020/08/27/its-time-to-normalize-suicide-prevention-training-at-the-workplace.html>.

**Zhang, P.**, Teo, V., & Khosravani, H. "When COVID-19 meets flu season". *Toronto Star*. Published July 14, 2020, from <https://www.thestar.com/opinion/contributors/2020/07/14/when-covid-19-pandemic-meets-the-flu-season.html>.

## Scholarships & Awards

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Rotman Scholar Award   Rotman School of Management	August 2021
Student Engagement Award   University of Toronto	June 2021
Joan E. Foley Quality of Student Experience Award   University of Toronto	April 2021
Guy Genest Passion for Pharmacy Award   CAPSI	December 2020
Future of Pharmacy Excellence Award   CAPSI	November 2020
Frank Kwiecien Memorial Scholarship   Leslie Dan Faculty of Pharmacy	July 2020
James D. Fleck Entrance Award   Rotman School of Management	July 2020
COVID-19 Student Engagement Award   University of Toronto	May 2020
CSHP External Affairs Student Writing Award   Undergraduate Pharmacy Society	April 2020
New College Student Council Leadership Award   New College	June 2017
Health Plus Pharmacy Award   Mackenzie Health Volunteer Association	May 2017
Terry Buckland Memorial Award   University of Toronto	April 2017
Gordon Cressy Student Leadership Award   University of Toronto	February 2017
Queen Elizabeth II Diamond Jubilee Scholarship   Trinity College	February 2017
New College Council In-Course Scholarship   New College	August 2016
Ruth Reiffenstein Memorial Scholarship   New College	August 2016
New College 50 <sup>th</sup> Anniversary Award   New College	June 2016