

# Peter Zhang, PharmD, MBA

Healthcare Strategy  
Artificial Intelligence  
Pharmacist Researcher

e. petercm.zhang@mail.utoronto.ca  
ln. peterczhang  
w. peterczhang.com

## Education

2023 – Present | **Doctor of Philosophy**  
Leslie Dan Faculty of Pharmacy, University of Toronto

2020 – 2022 | **Master of Business Administration**  
Rotman School of Management, University of Toronto

2017 – 2021 | **Doctor of Pharmacy with Honours**  
Leslie Dan Faculty of Pharmacy, University of Toronto

2013 – 2017 | **Honours Bachelor of Science with High Distinction**  
Faculty of Arts & Science, University of Toronto

## Professional Experience

2025 – Present | Senior Business Acceleration Partner & Value Delivery Lead  
2023 – 2025 | Business Acceleration Partner  
**ODAIA**

2025 – Present | Clinical Pharmacist  
**Twig Fertility**

2021 – Present | Clinical Pharmacist  
2018 – 2018 | System Technician Intern  
**Southlake Regional Health Centre**

2023 – 2023 | Marketing Manager | Cardiovascular & Metabolism  
2023 – 2023 | Marketing Associate | Cardiovascular & Metabolism  
2022 – 2023 | Marketing Associate | Neuroscience  
2021 – 2021 | Marketing Associate Intern | Dermatology  
**Johnson & Johnson Innovative Medicine**

2020 – 2020 | Co-Founder  
**3DPPE GTHA**

## Board Experience

2025 – Present | Board of Directors  
**Centre for Effective Practice**

2022 – 2025 | Board of Directors  
2021 – 2022 | Board Fellow  
**Hemophilia Ontario**

## Publications

1. **Zhang, P.C.**, & Tadrous, M. (2025). Empowering pharmacists in Canada's drug shortage response. *Canadian Pharmacists Journal / Revue des Pharmaciens du Canada*.  
<https://doi.org/10.1177/17151635251310143>
2. Ng, K.K.Y., Matsuba, I., & **Zhang, P.C.** (2024). RAG in health care: A novel framework for improving communication and decision-making by addressing LLM limitations. *NEJM AI*, 2(1).  
<https://doi.org/10.1056/AIra2400380>
3. **Zhang, P.C.**, Matinnia, C., & Austin, Z. (2024). To maximise impact, hospital pharmacists need to increase visibility. *European Journal of Hospital Pharmacy*, 31(3), 185-186.  
<https://doi.org/10.1136/ejhpharm-2024-004137>
4. Ng, K.K.Y., **Zhang, P.C.** (2023). Advancing medical affair capabilities and insight generation through machine learning techniques. *Journal of Pharmaceutical Policy and Practice*, 165(16).  
<https://doi.org/10.1186/s40545-023-00670-w>
5. **Zhang, P.C.**, Austin, Z. (2023). To succeed as health care innovators, pharmacists need to cultivate an entrepreneurial mindset. *Canadian Pharmacists Journal / Revue Des Pharmaciens Du Canada*, 156(3), 100-111. doi:10.1177/17151635231164622
6. Ho, C., **Zhang, P.C.** (2022). Patient Safety from a Pharmacy Perspective. In: *Encyclopedia of Evidence in Pharmaceutical Public Health and Health Services Research in Pharmacy*. Springer, Cham. [https://doi.org/10.1007/978-3-030-50247-8\\_72-1](https://doi.org/10.1007/978-3-030-50247-8_72-1)
7. 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>
8. **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>
9. 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>
10. **Zhang, P.C.**, Ahmed, Y., Hussein, I.M. et al (2020). Optimization of community-led 3D printing for the production of protective face shields. *3D Print Med* 6, 35.  
<https://doi.org/10.1186/s41205-020-00089-y>

## Teaching Experience

Lecturer

2024 - Present | University of Toronto | PHM327 | “Entrepreneurship”  
 2023 - Present | University of Toronto | PHM310 | “Change Management”  
 2022 - Present | University of Toronto | PHM215 | “Introduction to Financial Literacy”  
 2022 - Present | University of Toronto | PHM215 | “Power & Leadership”  
 2022 - Present | University of Toronto | PHM215 | “Business Planning”  
 2021 - Present | University of Toronto | HMB312 | “Microbiology in the Clinical Setting”  
 2024 - 2024 | University of Toronto | BTC2030 | “AI in the Pharmaceutical Industry”  
 2018 - 2023 | University of Toronto | NEW116 | “Antimicrobial Stewardship”  
 2017 - 2023 | University of Toronto | NEW106 | “Vaccinations and Autism”

### **Speaking Engagements & Guest Lectures**

2024 | “The AI Revolution in Healthcare” | Pharmacy Changemakers at the University of Toronto  
 2024 | “COVID-19 Vaccine Update” | British Columbia Pharmacy Association  
 2024 | “3D Printing Face Shields” | CAPSI Professional Development Week  
 2024 | “Designing & Evaluating Impact” | The AFS Youth Assembly

### **Instructional & Leadership Roles**

2021 – 2022 | Clinical Instructor  
 2018 – 2021 | Pharmacy Lab Teaching Assistant  
 2020 – 2020 | Scholarship of Teaching and Learning Research Assistant

#### **Leslie Dan Faculty of Pharmacy**

2021 – 2021 | Scholar | Managing Consumer Value  
**Rotman School of Management**

2020 – 2020 | Lead Residence Don  
 2017 – 2020 | Residence Don  
**New College, University of Toronto**

2016 – 2017 | Senior Peer Mentor  
 2014 – 2016 | Peer Mentor  
**First Year Learning Communities, University of Toronto**

2016 – 2016 | General Planning Executive  
 2015 – 2015 | Director of Training & Scheduling  
 2014 – 2014 | Orientation Leader  
**New College Orientation, University of Toronto**

2012 – 2017 | Program Instructor  
**City of Markham**

### **Research Experience**

2018 – 2020 | **The Reach Alliance** | Researcher  
 Conducted a qualitative study in India on polio elimination in Uttar Pradesh and Bihar to understand the strategies deployed to overcome vaccine hesitancy.

2019 – 2020 | **Leslie Dan Faculty of Pharmacy** | Project Researcher

2018 – 2019 | **Leslie Dan Faculty of Pharmacy** | Lab Assistant

Investigated the role of JMJD6, RBM39 in alternative splicing pathways mediated by the glucocorticoid receptor and the ARGLU1 protein.

2017 – 2017 | **University of York** | Project Researcher

Conducted laboratory techniques such as cell staining, flow cytometry, and RNA extraction to investigate monocyte activation in the context of leishmaniasis.

2016 – 2017 | **Temerty Faculty of Medicine** | Undergraduate Researcher

Conducted laboratory techniques including qPCR, genotyping, ELISA, bone marrow harvesting, and RNA extraction to investigate dendritic cell differentiation in the context of Crohn's disease.

2014 – 2015 | **Ontario Institute for Studies in Education** | Undergraduate Researcher

Administered psychometric tests to elementary school students to investigate language acquisition differences between bilingual and multilingual learners.

## Media

### Publications

1. Samani, M., Elsayes, S., and Zhang, P. "Pharmacists: Bridging the gap between AI and patient-centred care." **Healthy Debate**. Published November 28, 2025.
2. Zhang, P. "What pharmacists can learn from Asepha's \$4M seed fund raising." **Canadian Healthcare Network**. Published September 12, 2025.
3. Zhang, P., and Tadrous, M. "As pharmacists, we must be empowered to act in the face of Canada's painkiller shortage." **Toronto Star**. Published August 10, 2025.
4. Zhang, P. "The future of healthcare depends on investments in clinician entrepreneurship education." **Canadian Healthcare Network**. Published July 31, 2025.
5. Zhang, P. "Breaking into the pharmaceutical industry: a guide for pharmacy students." **Canadian Healthcare Network**. Published April 22, 2025.
6. Zhang, P. "Everyone wins when we invest in pharmacist entrepreneurs." **Canadian Healthcare Network**. Published April 2, 2025.
7. Daud, A., Zhang, P. "In the face of growing uncertainty, Canada needs to double down on innovation." **Healthy Debate**. Published April 1, 2025.
8. Zhang, P. "Will an MBA help clinicians grow?" **Canadian Healthcare Network**. Published March 17, 2025.
9. Pitkis, A., Tami, P., Zhang, P. "The importance of health-system navigators". **Healthy Debate**. Published January 28, 2025.
10. Tian, J.L.H., Shafaqat, A., Yaseen, S. & Zhang, P. "5 Ways to Propel Inclusive Climate Action". **Mastercard**. Published September 17, 2024.

11. Seladurai, M & Zhang, P. "Cybersecurity attacks highlight the need for patients to keep their medication records accessible". **Healthy Debate**. Published September 15, 2024.
12. Tian, J.L.H., Shafaqat, A., Yaseen, S. & Zhang, P. "Climate Resilience at the Margins: Five Key Lessons from Last Mile Populations". **Global Policy Journal**. Published July 29, 2024.
13. Sivanthan, L., Pitkis, A. & Zhang, P. "British Columbia found the key to attracting more family doctors, Ontario should do the same". **Toronto Star**. Published May 5, 2024.
14. Ng, K.K.Y. & Zhang, P. "AI Disruption is Coming. Are Healthcare Professionals Ready?". **MedCity News**. Published April 1, 2024.
15. Peters, C. & Zhang, P. "Governments should pay the high price of gene therapy". **Healthy Debate**. Published February 26, 2024.
16. Zhang, P. "Canadian pharmacists have an important role this RSV season". **Canadian Healthcare Network**. Published December 19, 2023.
17. Battey, J. & Zhang, P. "Prescribing community for mental health – lessons from Australia". **Healthy Debate**. Published December 3, 2023.
18. Shafaqat, A., Tan, D., & Zhang, P. "Canada must invest in global leadership programs within higher education institutions". **The Hill Times**. Published November 6, 2023.
19. Verhage, S., Tian, J., & Zhang, P. "Untapped potential: Young leaders have the tools to help address health-care challenges". **Healthy Debate**. Published October 23, 2023.
20. Younis, M., & Zhang, P. "Pharmacist prescribers fill important gaps in the Canadian healthcare system". **Healthy Debate**. Published September 24, 2023.
21. Ahmed, A., Yang, D. & Zhang, P. "Naloxone kits in TTC stations a necessary tool to address overdoses". **Toronto Star**. Published August 5, 2023.
22. Philbert, N. & Zhang, P. "Free menstrual hygiene products are on the way, if you work at a bank, an airline or the public service". **Toronto Star**. Published June 4, 2023.
23. Mathew, L. & Zhang, P. "Preventative health care: Why privately funded programs are reluctant to fund it". **Toronto Star**. Published May 6, 2023.
24. Zhang, P. "Synthetic data may revolutionize clinical trials – and save lives". **Healthy Debate**. Published April 3, 2023.
25. Zhang, P. & Daud, A. "Modernized home care can help stabilize health costs". **Globe and Mail**. Published March 22, 2023.
26. Pitkis A. & Zhang, P. "The benefits of giving include tax credits". **Toronto Star**. Published March 20, 2023.
27. Pandey, A. & Zhang, P. "Overcoming language barriers key to providing health-care". **Toronto Star**. Published March 5, 2023.

28. Zhang, P. "Ask a pharmacist before you split tablets for your children". **Toronto Star**. Published November 21, 2022.
29. Yang, J., Ahmed, A. & Zhang, P. "Internet-based mental health care deserves a boost". **Ottawa Citizen**. Published November 21, 2022.
30. Yang, J., Ahmed, A. & Zhang, P. "Vaccine hesitancy is reviving long dead diseases". **Healthy Debate & National Post**. Published September 12, 2022.
31. Zhang, P. & Tadrous, M. "How pharmacist prescribing can alleviate health-care system pressures". **Policy Options**. Published May 31, 2022.
32. Daud, A. & Zhang, P. "Elon Musk, social media giants, must prioritize mental health and well-being". **Toronto Star**. Published May 2, 2022.
33. Zhang, P. "Bleeding disorders in women need more attention". **The Hamilton Spectator**. Published February 8, 2022.
34. Zhang, P. "Despite a place on pharmacy shelves, homeopathy has no role in patient care". **Toronto Star**. Published December 31, 2021.
35. Ahmed, A. & Zhang, P. "The dangers of antimicrobial drug resistance must not be ignored". **Healthy Debate & National Post**. Published November 15, 2021.
36. Ahmed, A. & Zhang, P. "As election day looms, voters have the chance to be heard on the federal funding of health care". **Toronto Star**. Published September 10, 2021.
37. Garland, M., Ahmed, A. & Zhang, P. "Communication must become an essential component of the science education curriculum". **Healthy Debate**. Published August 18, 2021.
38. Ahmed, A. & Zhang, P. "To move beyond the pandemic, Canada needs to look globally". **The Hill Times**. Published July 29, 2021.
39. Yao, A., Zhang, P. & Ho, C. "When COVID-19 meets allergy season". **Hospital News**. Published May 27, 2021.
40. Zhang, P. & Daud, A. "Rigorous scrutiny of COVID-19 vaccines should bolster, nor erode, confidence in immunization safety". **Toronto Star**. Published May 3, 2021.
41. Tang, J. & Zhang, P. "Should more of our foods be fortified with vitamin D". **The Hamilton Spectator**. Published April 19, 2021.
42. Ahmed, Y., Daud, A. & Zhang, P. "COVID-19 and insomnia: Pills are not the answer". **Healthy Debate**. Published April 16, 2021.
43. Zhang, P. "Prioritize one-shot COVID-19 vaccines for the hard to reach". **Toronto Star**. Published April 7, 2021.
44. Zhang, P. & Hu, M. "Mobilizing pharmacists is key to immunization success". **The Hamilton Spectator**. Published March 5, 2021.

45. Zhang, P. & Ahmed, Y. "Cyberchondria: An unexpected side effect of digitizing medical information". **Toronto Star**. Published February 16, 2021.
46. Bala, S. & Zhang, P. "To win against COVID-19, we must put vaccine hesitancy behind us". **Ottawa Citizen**. Published January 4, 2021.
47. Daud, A. & Zhang, P. "Although alarming, mutated strains of COVID-19 are not a cause for panic". **Toronto Star**. Published January 3, 2021.
48. Zhang, P., Chan, C. & Ho, C. "Antimicrobial Stewardship in the face of COVID-19". **Hospital News**. Published October 28, 2020.
49. Zhang, P. "Naloxone needs to be in hands of as many people as possible". **The Windsor Star**. Published October 4, 2020.
50. Zhang, P. & Daud, A. "As pandemic forces change, it's a good time for Canadians to quit smoking". **Toronto Star**. Published September 9, 2020.
51. Zhang, P. "It's time to normalize suicide prevention training at the workplace". **Toronto Star**. Published August 27, 2020.
52. Zhang, P., Teo, V. & Khosravani, H. "When COVID-19 meets flu season". **Toronto Star**. Published July 14, 2020.

## Interviews & Podcasts

1. Canadian Federation of Medical Students. "Collaborative Care: A Pharmacist's Insights on Research and Medicine with Peter Zhang." Published December 6, 2024.
2. Leslie Dan Faculty of Pharmacy, University of Toronto. "Why choose a PharmD-MBA at the Leslie Dan Faculty of Pharmacy?" Published September 24, 2021.

## Awards & Recognition

### Scholarships

2024 | Emerging Leader in Pharmacy Practice Award | Leslie Dan Faculty of Pharmacy  
 2021 | Rotman Scholar Award | Rotman School of Management  
 2021 | Student Engagement Award | University of Toronto  
 2021 | Joan E. Foley Quality of Student Experience Award | University of Toronto  
 2020 | Guy Genest Passion for Pharmacy Award | CAPSI  
 2020 | Future of Pharmacy Excellence Award | CAPSI  
 2020 | Frank Kwiecien Memorial Scholarship | Leslie Dan Faculty of Pharmacy  
 2020 | James D. Fleck Entrance Award | Rotman School of Management  
 2020 | COVID-19 Student Engagement Award | University of Toronto  
 2020 | CSHP External Affairs Student Writing Award | Undergraduate Pharmacy Society  
 2017 | New College Student Council Leadership Award | New College  
 2017 | Health Plus Pharmacy Award | Mackenzie Health Volunteer Association  
 2017 | Terry Buckland Memorial Award | University of Toronto  
 2017 | Gordon Cressy Student Leadership Award | University of Toronto  
 2017 | Queen Elizabeth II Diamond Jubilee Scholarship | Trinity College

2016 | New College Council In-Course Scholarship | New College  
2016 | Ruth Reiffenstein Memorial Scholarship | New College  
2016 | New College 50<sup>th</sup> Anniversary Award | New College

### **Recognition**

2023 | Youth Assembly Delegate | AFS Intercultural Programs  
2022 | 100 Best & Brightest MBAs: Class of 2022 | Poets & Quants  
2020 | 3DPPE GTHA Printing Milestone of 20,000 Face Shields | Ontario Minister of Health

## **Community & Service**

2021 – 2022 | Columnist

### **Poets & Quants**

2019 – 2020 | Membership Committee

2018 – 2019 | Communications Committee

### **Canadian Society of Hospital Pharmacists**

2018 – 2019 | Webmaster

### **Undergraduate Pharmacy Society**

2018 – 2019 | Curriculum and Assessment Committee

### **Leslie Dan Faculty of Pharmacy**

2017 – 2018 | Speaker

2016 – 2017 | Graduating Year Representative

2015 – 2016 | Social Director

### **New College Student Council**

2010 – 2017 | Information Desk Volunteer Supervisor

2015 – 2015 | Emergency Department Volunteer

### **Mackenzie Health Richmond Hill Hospital**