

Zack van Allen PhD, MBA

Department of Family Medicine, University of Ottawa · Bruyère Health Research Institute

AMS Healthcare Fellow in Compassion and Artificial Intelligence, 2026–2027

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RESEARCH PROFILE

Applied AI researcher and implementation scientist developing and evaluating human-centred methods and tools for primary care, chronic disease, medical education, knowledge translation, and health-system improvement. The program integrates LLM-enabled workflows, implementation science, governance, equity, and co-production. 2026–2027 AMS Healthcare Fellow in Compassion and Artificial Intelligence (seventh cohort, announced September 2026).

Areas of focus. Applied AI in health and public health; implementation science; health informatics; LLM-enabled workflows and evaluation; chronic disease; medical education; equity, governance, compassion, and co-production.

Record at a glance. 28 peer-reviewed publications (9 first-author) and 2 preprints; over 1,800 citations and an h-index of 13 (Google Scholar, September 2026); \$320,000 in competitive personal fellowships as principal investigator; co-investigator or AI lead on more than \$1.9M in team funding.

ACADEMIC AND RESEARCH APPOINTMENTS

2024–present	Senior Research Associate , Department of Family Medicine, University of Ottawa
2024–present	Research Associate II , Bruyère Health Research Institute
2023–2024	Research Fellow (Mitacs-Banting Postdoctoral Fellow) , Health Sciences, University of Ottawa
2023–2024	Research Associate , Ottawa Hospital Research Institute
2018–2023	Research Coordinator , Ottawa Hospital Research Institute
2017–2018	Research Assistant , Department of Innovation in Medical Education, University of Ottawa
2015–2017	Research Assistant , Department of National Defence
2015–2016	Workshop Facilitator , Enriched Support Program
2014–2017	Research Assistant , Carleton University Happiness Laboratory

EDUCATION AND TRAINING

2023–2024	Postdoctoral Fellow , Health Sciences, University of Ottawa (Mitacs-Banting)
2019–2023	PhD, Psychology , University of Ottawa (CIHR Doctoral Scholarship) <i>Dissertation: Modelling co-occurring and co-varying health behaviours: Applications of machine learning and network psychometrics.</i>
2017–2019	MBA , Carleton University
2014–2016	MA, Psychology , Carleton University <i>Thesis: An exploratory manipulation of openness to experience.</i>
2009–2014	BA, Psychology , Carleton University <i>Honours thesis: Is enacted extraversion a viable positive psychology intervention?</i>

RESEARCH FUNDING

Competitive Fellowships (Principal Investigator) — \$320,000

1. **van Allen, Z. M.** (2026–2027). Local large language models for compassionate administrative work in academic family medicine. AMS Fellowship in Compassion and Artificial Intelligence, AMS Healthcare. \$75,000; September

2026–October 2027. Public project title: *Using secure, open-weight AI to protect compassionate care in family medicine*.

2. **van Allen, Z. M.** (2023–2025). Physical activity engagement and the intention–action gap in older adults. Mitacs-Banting Discovery Postdoctoral Fellowship. \$140,000.
3. **van Allen, Z. M.** (2020–2023). Applications of complexity science and network analysis to health behaviour change. Canadian Institutes of Health Research, Frederick Banting and Charles Best Canada Graduate Scholarships – Doctoral Research Award. \$105,000.

Grants and Team Funding (Co-investigator or AI Lead)

1. Radhakrishnan, A., Daly-Cyr, J., Haaland, K., Mamdani, M., McIntyre, V., Campbell, F., McDonald, **van Allen, Z. M.**, El Emam, K., Poulin, P., Rash, J., Buckley, D. N., Di Renna, T., Johnston, S., Kattail, D., Leblanc, A., Maniate, J., Swidrovich, J., & Bosma, R. (2026). Partnering with patients to co-produce a national AI priority agenda for chronic pain. Canadian Institutes of Health Research, Catalyst Grant: Partnering for Impact. \$125,000; ResearchNet application No. 588501.
2. Wilson, R. A., Cooper, L. K., Bosma, R. L., Poulin, P. A., Radhakrishnan, A. K., Shergill, Y., Bisson, E., Di Renna, T., Laloo, C., Mahar, A., McEwen, V., Olson, J., Presseau, J., Rash, J., Snelgrove-Clarke, E., Stinson, J., Sud, A., Telner, D., Vesnaver, E., **van Allen, Z. M.**, & Poulin, P. A. (2025). EmPOWERing primary care settings to use digital health interventions for chronic pain. Canadian Institutes of Health Research, Catalyst Grant: Digital Health – Early to Mid-Career Research. \$96,788; 1-year award; Application No. 544245.
3. Montpetit, M., Archibald, D., Rourke, L., Rourke, J., Radhakrishnan, A., **van Allen, Z. M.**, Cao, C., Bayoumi, I., Li, P., Rowan-Legg, A., Kwok, B., & Leduc, D. Modernizing the Rourke Baby Record: AI-enabled evidence synthesis for timely updates. The Ottawa Hospital Academic Medical Organization (TOHAMO). \$135,000.
4. Radhakrishnan, A., Radhakrishnan, D., Rifai, T., El Emam, K., **van Allen, Z. M.**, Pilgram, L., Jacob, J., & Brudno, M. AsthmaWISE: A multimodal conversational AI companion for delivering trustworthy support and education for asthma. CHAMO. \$135,000.
5. Desrosiers, M.-I., Mansour, M., Poitras, S., Bouraleh, S. M., Massoui, S., Khzami, O., Grosjean, S., Johnston, S., Giroux, I., Dewar, M., Lalonde, M., **van Allen, Z. M.**, Do, K., Duckett, E., & Duquet, M. De la formation à l'action : patients et proches aidants francophones au cœur de la co-conception d'outils utilisant l'intelligence artificielle en santé. Association médicale universitaire de Montfort. \$186,120.
6. Radhakrishnan, A., Johnston, S., Trickovic, J., Chandrasena, C., Rash, J., & **van Allen, Z. M.** COMPASS: Consensus on Medical Priorities and AI Solutions in primary care. The Ottawa Hospital Seed Fund. \$15,000.
7. Manuel, D. G., Smini, S., Bennett, C., Fisher, S., Hennessy, D., Meza, R., Moher, D., Presseau, J., Rohgozar, A., Webber, L., **van Allen, Z. M.**, & Mytton, O. Development of reporting guidelines for modelling studies of noncommunicable diseases (POPCORN). Canadian Institutes of Health Research. \$320,536.
8. Lavoie, K., Baydoun, M., Corace, K., Gershon, A., Joyal-Desmarais, K., Rash, J., Vallis, M., Belanger-Gravel, A., Deslauriers, F., Boucher, G., Liu, J., Saint-Charles, J., **van Allen, Z. M.**, Campbell, T., Drouin, S., O'Connor, S., Spivock, M., & Bacon, S. L. Optimizing pandemic preparedness through ongoing assessment of public attitudes, intentions and behaviours in relation to COVID-19 prevention measures and their impacts: Extending the iCARE Study. Canadian Institutes of Health Research. \$952,426.

RESEARCH PROGRAM AND INNOVATION LEADERSHIP

AMS Fellowship in Compassion and Artificial Intelligence

Principal investigator and 2026–2027 fellow (\$75,000). Evaluating whether secure, open-weight language models running on local infrastructure can reduce administrative burden in academic family medicine while protecting compassionate care.

COMPASS, RAPID, and Hackers & Healers: AI priorities and co-design in primary care

Co-led clinician and expert priority-setting studies (COMPASS I preprint, September 2026) and a clinician–developer co-design model. Co-organized the June 2026 Hackers & Healers hackathon at Invest Ottawa: 150 participants across 44 clinician–developer teams. Onboarding clinics to test prototypes in real clinical settings is in progress.

Rourke Baby Record AI-enabled evidence synthesis

Designed the project and oversee ongoing work as AI lead and co-investigator on a \$135,000 human-in-the-loop LLM workflow for living preventive child-health guideline updates, with source traceability and expert oversight.

Referral-triage application

Lead developer and co-designer, with clinicians and frontline triage staff, of a deterministic Python application that translates a community health centre's intake, triage, and routing workflow into explicit, auditable logic. Pre-production prototype under validation: 95% adjusted agreement with clinical triage decisions across 40 mock cases.

LLM evaluation in medical education

Led a blinded evaluation of 240 feedback reports on resident scholarly projects (120 LLM-generated, 120 expert-written) and evaluation of AI-assisted scoring of roughly 2,200 autobiographical sketches per undergraduate admissions cycle.

Departmental AI adoption and governance

Lead author of the Department of Family Medicine AI adoption plan, built on a COM-B staff survey and aligned to the university's five-pillar AI roadmap (endorsed in principle by senior leadership), and of an accepted proposal for a departmental risk management process. Author of the July 2026 AI briefing for incoming departmental leadership; continuing to advise on AI adoption.

AsthmaWISE conversational AI education companion

AI methods co-investigator on a \$135,000 retrieval-augmented conversational support tool for asthma education for families, children, and young adults.

PEER-REVIEWED PUBLICATIONS

First-Author Publications (9)

1. **van Allen, Z. M.**, Beselt, J., Maniate, J. M., Hickcox, S., Rash, J. A., Wilson, K., Archibald, D., & Radhakrishnan, A. (2026). From static outputs to living evidence: AI for integrated knowledge translation in Canadian health research. *JMIR AI*, 5, e99386. doi.org/10.2196/99386
2. **van Allen, Z. M.**, & Boisgontier, M. P. (2025). Prospective classification of functional dependence: Insights from machine learning and the Canadian Longitudinal Study on Aging. *Physiotherapy Canada*. doi.org/10.3138/ptc-2024-0136
3. **van Allen, Z. M.**, Orsholits, D., & Boisgontier, M. P. (2024). Prestroke physical activity matters for functional limitations: A longitudinal case-control study of 12,860 participants. *Physical Therapy*, 104(10), pzae094. doi.org/10.1093/ptj/pzae094
4. **van Allen, Z. M.**, & Pesseau, J. (2024). A multiple behaviour temporal network analysis for health behaviours during COVID-19. *British Journal of Health Psychology*, 29(4), 1049–1063. doi.org/10.1111/bjhp.12750
5. **van Allen, Z. M.**, Bacon, S., Bernard, P., Brown, H., Desroches, S., Kastner, M., ... Pesseau, J. (2023). Clustering of health behaviors in Canadians: A multiple behavior analysis of data from the Canadian Longitudinal Study on Aging. *Annals of Behavioral Medicine*, 57(8), 662–675. doi.org/10.1093/abm/kaad008
6. **van Allen, Z. M.**, Bacon, S., Bernard, P., Brown, H., Desroches, S., Kastner, M., ... Pesseau, J. (2021). Clustering of unhealthy behaviors: Protocol for a multiple behavior analysis of data from the Canadian Longitudinal Study on Aging. *JMIR Research Protocols*, 10(6), e24887. doi.org/10.2196/24887
7. **van Allen, Z. M.**, Walker, L., Streiner, T., & Zelenski, J. M. (2021). Enacted extraversion as a well-being enhancing strategy in everyday life: Testing across three, week-long interventions. *Collabra: Psychology*, 7(1), 29931. doi.org/10.1525/collabra.29931
8. **van Allen, Z. M.**, Dogba, M. J., Brent, M. H., Bach, C., Grimshaw, J. M., Ivers, N. M., ... Pesseau, J. (2021). Barriers to and enablers of attendance at diabetic retinopathy screening experienced by immigrants to Canada from multiple cultural and linguistic minority groups. *Diabetic Medicine*, 38(4), e14429. doi.org/10.1111/dme.14429
9. **van Allen, Z. M.**, & Zelenski, J. M. (2018). Testing trait-state isomorphism in a new domain: An exploratory manipulation of openness to experience. *Frontiers in Psychology*, 9, 1964. doi.org/10.3389/fpsyg.2018.01964

Co-Authored Publications (19)

1. Radhakrishnan, A., Beselt, L. J., King, A. C., **van Allen, Z.**, Archibald, D., Maniate, J., Hickcox, S., Rangel, C., & Rash, J. A. (2026). Implementing and evaluating Adaptive Mentorship Networks to strengthen primary care in Canada: Protocol for a mixed-methods implementation science study. *BMJ Open*, 16(7), e122735. doi.org/10.1136/bmjopen-2026-122735
2. Silva, C. C., Marques, M. M., **van Allen, Z. M.**, Carvalho, M., Dinsmore, J., & Presseau, J. (2026). Interventions aiming to change multiple healthcare professional behaviors: A systematic review. *Social Science & Medicine*, 391, 118760. doi.org/10.1016/j.socscimed.2025.118760
3. Etherington, C., Bennett, M., Upreti, A., **van Allen, Z. M.**, Labrecque, M., Rubini, K., Gibson, E., Maharshi, M. T., Palumbo, A., Holloway, K., Meyer, S., Welch, V., Shorr, R., Brehaut, A., & Presseau, J. (2026). Factors associated with plasma donation intention and behaviour: A systematic review and meta-analysis of the observational literature informed by the Theoretical Domains Framework. *Health Psychology Review*, 20(2), 282–302. doi.org/10.1080/17437199.2025.2574443
4. Goubran, M., **van Allen, Z. M.**, Bilodeau, M., & Boisgontier, M. P. (2025). Depressive symptoms and physical activity mediate the adverse effect of pain on functional dependence in patients with arthritis: Evidence from the Canadian Longitudinal Study on Aging. *Physical Therapy*, 105(11), pzaf120. doi.org/10.1093/ptj/pzaf120
5. Silva, C. C., Presseau, J., **van Allen, Z. M.**, Dinsmore, J., Schenk, P., Moreto, M., & Marques, M. M. (2025). Components of multiple health behaviour change interventions for patients with chronic conditions: A systematic review and meta-regression of randomized trials. *Health Psychology Review*, 19(1), 200–255. doi.org/10.1080/17437199.2024.2413871
6. Silva, C. C., Presseau, J., **van Allen, Z. M.**, Schenk, P. M., Moreto, M., Dinsmore, J., & Marques, M. M. (2024). Effectiveness of interventions for changing more than one behavior at a time to manage chronic conditions: A systematic review and meta-analysis. *Annals of Behavioral Medicine*, 58(6), 432–444. doi.org/10.1093/abm/kaae021
7. Fontaine, G., Presseau, J., Bruneau, J., Etherington, C., Thomas, I. M., Hung, J.-H. C., **van Allen, Z. M.**, Patey, A. M., Kareem, A., Mortazhejri, S., Bordier Høj, S., Boyer-Legault, G., & Grimshaw, J. M. (2024). Using an intersectionality lens to explore barriers and enablers to hepatitis C point-of-care testing: A qualitative study among people who inject drugs and service providers. *International Journal for Equity in Health*, 23(1), 124. doi.org/10.1186/s12939-024-02209-0
8. Farajzadeh, A., Goubran, M., Fessler, L., Cheval, B., **van Allen, Z. M.**, & Boisgontier, M. P. (2023). Training older adults to inhibit the automatic attraction to sedentary stimuli: A cognitive-bias-modification protocol. *European Rehabilitation Journal*, 3(1). doi.org/10.52057/erj.v3i1.32
9. Fontaine, G., Presseau, J., Bruneau, J., Patey, A. M., **van Allen, Z. M.**, Mortazhejri, S., Bordier Høj, S., Hung, J. H. C., & Grimshaw, J. M. (2023). “Apparently, you can only be treated once”: A qualitative study exploring perceptions of hepatitis C and access to treatment among people who inject drugs visiting a needle and syringe program. *International Journal of Drug Policy*, 121, 104124. doi.org/10.1016/j.drugpo.2023.104124
10. Wilson, M., **van Allen, Z. M.**, Grimshaw, J. M., Brehaut, J. C., Durand, A., Lalonde, J. F., ... Presseau, J. (2023). Reducing touching eyes, nose and mouth ('T-zone') to reduce the spread of infectious disease: A prospective study of motivational, volitional and non-reflective predictors. *British Journal of Health Psychology*, 28(4), 893–913. doi.org/10.1111/bjhp.12660
11. Crawshaw, J., Konnyu, K., Castillo, G., **van Allen, Z. M.**, Grimshaw, J. M., & Presseau, J. (2022). Behavioural determinants of COVID-19 vaccination acceptance among healthcare workers: A rapid review. *Public Health*, 210, 123–133. doi.org/10.1016/j.puhe.2022.06.003
12. Dogba, M. J., Brent, M., Bach, C., Asad, S., Grimshaw, J., Ivers, N., ... Presseau, J. (2020). Identifying barriers and enablers to attending diabetic retinopathy screening in immigrants to Canada from ethnocultural minority groups: Protocol for a qualitative descriptive study. *JMIR Research Protocols*, 9, e15109. doi.org/10.2196/15109
13. Lynch, T., Ryan, C., Hughes, C. M., Presseau, J., **van Allen, Z. M.**, Bradley, C. P., & Cadogan, C. A. (2020). Brief interventions targeting long-term benzodiazepine and Z-drug use in primary care: A systematic review and meta-analysis. *Addiction*, 115(9), 1618–1639. doi.org/10.1111/add.14981

14. Crawshaw, J., Pesseau, J., **van Allen, Z. M.**, Carvalho, L. P., Jordison, K., English, S. W., ... Chassé, M. (2019). Exploring the experiences and perspectives of substitute decision-makers involved in decisions about deceased organ donation: A qualitative study protocol. *BMJ Open*, 9(12), e034594. doi.org/10.1136/bmjopen-2019-034594
15. Ruci, L., **van Allen, Z. M.**, & Zelenski, J. M. (2018). Pro-social personality traits, helping behavior, and ego-depletion: Is helping really easier for the dispositionally pro-social? *Personality and Individual Differences*, 120, 32–39. doi.org/10.1016/j.paid.2017.08.013
16. Mangone, G., Capaldi, C. A., **van Allen, Z. M.**, & Luscuere, P. G. (2017). Bringing nature to work: Preferences and perceptions of constructed indoor and natural outdoor workspaces. *Urban Forestry & Urban Greening*, 23, 1–12. doi.org/10.1016/j.ufug.2017.02.009
17. Ebersole, C. R., Atherton, O. E., Belanger, A. L., Skulborstad, H. M., Allen, J. M., Banks, J. B., ... Nosek, B. A. (2016). Many Labs 3: Evaluating participant pool quality across the academic semester via replication. *Journal of Experimental Social Psychology*, 67, 68–82. doi.org/10.1016/j.jesp.2015.10.012
18. Nealis, L. J., **van Allen, Z. M.**, & Zelenski, J. M. (2016). Positive affect and cognitive restoration: Investigating the role of valence and arousal. *PLOS ONE*, 11(1), e0147275. doi.org/10.1371/journal.pone.0147275
19. Wagenmakers, E.-J., Beek, T., Dijkhoff, L., Gronau, Q. F., Acosta, A., Adams, R. B., ... Zwaan, R. A. (2016). Registered Replication Report: Strack, Martin, & Stepper (1988). *Perspectives on Psychological Science*, 11(6), 917–928. doi.org/10.1177/1745691616674458

OTHER SCHOLARLY OUTPUTS

Preprints (2)

1. **van Allen, Z.**, Chandrasena, C., El Emam, K., Haaland, K., Johnston, S., Mamdani, M., Manuel, D., Rash, J., Terekhov, I., Trickovic, J., Zavar, A., van Allen, K., & Radhakrishnan, A. (2026). COMPASS I: Near-term artificial intelligence capabilities and project ideas for primary care from a modified virtual nominal group technique study. *JMIR Preprints*. doi.org/10.2196/preprints.111828
2. **van Allen, Z.**, Forgues-Martel, S., Venables, M. J., Ghanney, Y., Villeneuve, A., Dongmo, J., Ahmed, M., Archibald, D., & Jolin-Dahel, K. (2026). Can AI match human experts? Evaluating LLM-generated feedback on resident scholarly projects. *medRxiv*. doi.org/10.64898/2026.03.04.26346878

Manuscript Under Review

1. Langmuir, T., Gibson, E., Fontaine, G., Smith, M., Alghamyan, A., Thompson, K., Zmytrovysh, K., Wilson, M., McCleary, N., Patey, A., Mekki, K., Estey Noad, L., Buchan, J., Dubey, V., Reynolds-Taffe, C., McMillan, G., **van Allen, Z. M.**, Crawshaw, J., Grimshaw, J., Arnason, T., Brehaut, J., Michie, S., Brouwers, M., & Pesseau, J. (2026). Barriers and enablers of COVID-19 vaccination among Black, Eastern European, and low socioeconomic status communities in Canada. Under review, *British Journal of Health Psychology*.

Works in Progress

1. **van Allen, Z. M.**, Jolin-Dahel, K., Skory, L., Cummings, L. A. M., Johnston, S., Rash, J., Trickovic, J., & Radhakrishnan, A. (in preparation). COMPASS II: Clinician-defined priorities for artificial intelligence in primary care. Target: *Annals of Family Medicine*.
2. Crawshaw, J., Squires, J., Palumbo, A., Patey, A. M., Francis, J., Varin, M. D., **van Allen, Z. M.**, Asad, S., McMillan, G., Vachon, B., Bond, C., Mallick, R., Grimshaw, J., & Pesseau, J. (in progress). Action and/or coping planning for health behaviour change: A Cochrane systematic review of 266 randomized controlled trials.
3. Crawshaw, J., Pesseau, J., Jordison, K., **van Allen, Z. M.**, Titova, P., Carvalho, L. P., & Chassé, M. (in progress). Exploring the experiences and perspectives of substitute decision-makers involved in decisions about deceased organ donation.

Digital Scholarship and Competitions

1. Kouadio, Y., & **van Allen, Z.** (2026). Universal Medical Ingestion Engine. Kaggle: MedGemma Impact Challenge competition entry. kaggle.com/competitions/med-gemma-impact-challenge

2. **van Allen, Z.** (2026). AI-directed content analysis: A guide for quantitative researchers. Open methods explainer. zackvanallen.com/methods
3. **van Allen, Z.** QualFrame: A research prototype for human-supervised, provenance-tracked qualitative analysis. Open-source repository. github.com/ZvanAllen/qualframe

Scientific and Government Reports

1. Presseau, J., Shorr, R., & **van Allen, Z. M.** (2024). COVID-19 vaccine mandates and their relationship with vaccination intention, psychological reactance, and trust: A rapid behavioural evidence synthesis. Ottawa Hospital Research Institute, March 11, 2024. [Funded by PHAC and CIHR]
2. McMillan, G., Hussain, J., Abdullah, K., Chan, E., **van Allen, Z. M.**, Palumbo, A., Grenier, A.-D., Smith, M., Strain, K., & Presseau, J. (2023). What strategies support people to adopt behaviours in order to follow COVID-19 public health and social measures. McMaster Health Forum.
3. McMillan, G., **van Allen, Z. M.**, & Presseau, J. (2022). Understanding the role of personal risk perceptions during the COVID-19 pandemic: A rapid behavioural science evidence synthesis. McMaster Health Forum.
4. Crawshaw, J., Konnyu, K., Castillo, G., **van Allen, Z. M.**, Grimshaw, J. M., & Presseau, J. (2021). Factors affecting COVID-19 vaccination acceptance and uptake among the general public: A living behavioural science evidence synthesis (v1.0, April 30, 2021). Ottawa Hospital Research Institute.
5. Crawshaw, J., Konnyu, K., Castillo, G., **van Allen, Z. M.**, Grimshaw, J. M., & Presseau, J. (2021). Factors affecting healthcare worker COVID-19 vaccination acceptance and uptake: A living behavioural science evidence synthesis (v3.0, June 18, 2021). Ottawa Hospital Research Institute.
6. Dogba, M. J., Brent, M., **van Allen, Z. M.**, Bach, C., Grimshaw, J., Ivers, N., ... Presseau, J. (2021). Identifying barriers and enablers to attending diabetic retinopathy screening in immigrants to Canada from ethnocultural minority groups. Phase II report: Co-developing intervention options for identified barriers and enablers to retinopathy screening. Diabetes Action Canada.
7. Rankin, K. J., Williams, L. M., & **van Allen, Z. M.** (2017). Major-General and Rear-Admiral leader profiles: Development, validation, and implementation recommendations (DGMPRA Scientific Report). Defence Research and Development Canada.
8. Rankin, K. J., Williams, L. M., & **van Allen, Z. M.** (2017). Major-General and Rear-Admiral leader profiles: Professional development related results (DGMPRA Scientific Report). Defence Research and Development Canada.

SELECTED PRESENTATIONS

Invited Talks and Workshops

1. Trickovic, J., Byrne, A., & **van Allen, Z. M.** (2026, May 14). AI, administrative burden, and physician wellness in family practice. Invited continuing professional development workshop (2.5 CCFP Mainpro+ credits), The Ottawa Hospital Department of Family Practice, Ottawa, ON.
2. **van Allen, Z. M.** (2026, May 12). AI-driven automation of autobiographical sketch grading in UGME admissions. Invited speaker, Ottawa Applied Medical AI Summit, Ottawa Medical AI Research Institute (OMARI) and CHEO Research Institute, Ottawa, ON.
3. **van Allen, Z. M.**, & Daly, B. (2025, June 4). Artificial intelligence in elderly care: Looking to the future. Invited talk, 16th Annual Care of the Elderly Conference, McMaster University.
4. Jolin-Dahel, K., & **van Allen, Z. M.** (2025, April 27). Artificial intelligence in primary care: Envisioning the future integration of AI in family medicine. Invited talk, Faculty Retreat, Department of Family Medicine, University of Ottawa.
5. **van Allen, Z. M.** (2024, September 24). The impact of physical activity pre-stroke and the insights from machine learning on functional dependence. Invited webinar, Centre of Excellence Webinar Series, Perley Health.
6. **van Allen, Z. M.** (2022, March 17). Temporal network dynamics of multiple health behaviours during the COVID-19 pandemic. Invited talk, Montreal Behavioural Medicine Centre.

Conference Presentations, Workshops, and Tutorials

1. **van Allen, Z. M.**, Beselt, L. J., Archibald, D., Maniate, J. M., & Radhakrishnan, A. (2026, July 7). Responsible AI-assisted qualitative data analysis in health research: A hands-on CFIR tutorial. 3.5-hour tutorial, 24th International Conference on Artificial Intelligence in Medicine (AIME 2026), University of Ottawa, Ottawa, ON.
2. **van Allen, Z.**, Beselt, J., Archibald, D., Maniate, J., & Radhakrishnan, A. (2026, April 16–19). Ethically integrating AI into deductive qualitative analysis in medical education. Workshop, International Congress on Academic Medicine (ICAM 2026), Ottawa, ON. Abstract published in *Canadian Medical Education Journal*, 17(3). doi.org/10.36834/fv597x83
3. Cummings, L., Rifai, T., **van Allen, Z.**, Radhakrishnan, K., & Visentin, L. (2026, April 16–19). Development of a postgraduate planetary health curriculum. International Congress on Academic Medicine (ICAM 2026), Ottawa, ON.
4. Radhakrishnan, A., & **van Allen, Z.** (2026, February 12). What primary care clinicians want from AI: Insights from the COMPASS study expert panel. Destination Recherche et Innovation Montfort, Ottawa, ON.
5. Callahan, J., Holland, B., Chan, C., Kouadio, Y., Radhakrishnan, A., **van Allen, Z.**, & Rifai, T. (2026, February 12). AI-assisted centralized intake for gender-affirming care: Developing a privacy-preserving triage system for the Champlain region. Destination Recherche et Innovation Montfort, Ottawa, ON.
6. Silva, C., Presseau, J., Dinsmore, J., **van Allen, Z. M.**, & Marques, M. M. (2023). A systematic review of multiple health behaviour change interventions in patients with chronic conditions. Society of Behavioral Medicine Annual Meeting, Phoenix, AZ.
7. Crawshaw, J., Squires, J., Palumbo, A., Patey, A. M., Francis, J., Varin, M. D., **van Allen, Z. M.**, Asad, S., McMillan, G., Vachon, B., Bond, C., Mallick, R., Grimshaw, J., & Presseau, J. (2023). Action and/or coping planning for health behaviour change: A Cochrane systematic review of 266 randomized controlled trials. International Congress of Behavioral Medicine, Vancouver, BC.
8. **van Allen, Z. M.**, Bacon, S., Bernard, P., Brown, H., Desroches, S., Kastner, M., ... Presseau, J. (2022). Clustering of health behaviours in Canadians: A multiple behaviour analysis of data from the Canadian Longitudinal Study on Aging. Canadian Psychological Association Annual Convention, Calgary, AB.
9. Crawshaw, J., Konnyu, K., Castillo, G., **van Allen, Z. M.**, Grimshaw, J., & Presseau, J. (2022). Behavioural determinants of COVID-19 vaccination acceptance and uptake among healthcare workers: A rapid systematic review. Society of Behavioral Medicine Annual Meeting, Baltimore, MD.
10. Dogba, M. J., Brent, M., Bach, C., **van Allen, Z. M.**, Asad, S., Grimshaw, J., ... Presseau, J. (2019). Identifying barriers and enablers to attending diabetic retinopathy screening in immigrants from ethnocultural minority groups. Diabetes Action Canada Annual Conference.

TEACHING EXPERIENCE

2015–2017	Teaching Assistant , PSYC 3302: Positive Psychology, Carleton University
2016	Teaching Assistant , PSYC 2001: Introduction to Research Methods, Carleton University
2015	Teaching Assistant , PSYC 2600: Introduction to Personality, Carleton University
2014	Teaching Assistant , PSYC 1002: Introduction to Psychology II, Carleton University
2014	Teaching Assistant , PSYC 4910: Project for BA/BSc Honours, Carleton University

SUPERVISION AND MENTORSHIP

2024–present	Research team direction and mentorship. Hired and onboarded a senior research associate and provide ongoing coaching through weekly one-to-ones; provide day-to-day direction and methods mentorship to research associates and coordinators without formal reporting lines.
2024–2025	Co-supervision and methodological mentorship for a PhD student project during postdoctoral fellowship: research methodology, statistics, and manuscript development through peer-reviewed publication (Goubran et al., 2025, <i>Physical Therapy</i> , 105(11), pzaf120).

ACADEMIC, PROFESSIONAL, AND COMMUNITY SERVICE

2026	Co-organizer , Hackers & Healers: AI in Primary Care Co-Design Hackathon, Invest Ottawa (June 20). Convened 150 clinicians, developers, students, founders, and health-system leaders across 44 teams, with Arun Radhakrishnan, Blake Daly, and Neilda Gagné.
2025–2026	Grant Review Committee Member , Savoir Montfort Grant Program, Institut du Savoir Montfort
2025	Planning Committee Member , Ottawa Symposium for AI in Health Research
Ongoing	Peer review : Ad hoc reviewer, <i>The Quantitative Methods for Psychology</i> ; reviewer, Peer Community In Health & Movement Sciences

AWARDS AND SCHOLARSHIPS

2026–2027	AMS Fellowship in Compassion and Artificial Intelligence, AMS Healthcare (\$75,000)
2023–2025	Mitacs-Banting Postdoctoral Fellowship (\$140,000)
2020–2023	Frederick Banting and Charles Best Canada Graduate Scholarship – Doctoral, CIHR (\$105,000)
2020–2023	Excellence Scholarship, University of Ottawa
2020	Queen Elizabeth II Graduate Scholarship in Science and Technology, University of Ottawa (declined)
2019	Admissions Scholarship, University of Ottawa
2015, 2017	Dean of Graduate Studies Entrance Scholarship, Carleton University
2015, 2017	Graduate Scholarship, Carleton University
2012	Carleton Academic Scholarship, Carleton University
2010, 2012, 2013	Dean's Honour List, Carleton University
2010	E. W. R. Steacie Scholarship, Carleton University
2009	President's Scholarship, Carleton University

LANGUAGES

English (native).