Josh L. Hayes
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Email: josh.hayes@pg.canterbury.ac.nz

EDUCATION

2015 – 2019 (expected)	University of Canterbury, PhD Candidate, Disaster Risk and Resilience
2015 – 2016	Universite de Geneve, Specialization Certificate in the Assessment and Management of Geological and Climate Related Risk
2013 - 2015	University of Canterbury, MSc (1st Class Honours), Hazard and Disaster Management
2009 - 2012	University of Canterbury, BSc: Geology and Geography, Endorsement: Environmental Sciences

PROFESSIONAL HISTORY

2014 - present	Research and teaching assistant, Department of Geological Sciences, University of Canterbury, New Zealand
2016 – 2017	Research Consultant, DRR Solutions/University of Canterbury, New Zealand

ROLES, RESPONSIBILITIES AND ACHIEVEMENTS

- Executive member QuakeCoRE Emerging Researcher Chapter (2018 – present)
- Ad hoc reviewer: Bulletin of Volcanology
- Supported coordination of multi-national field research activities
- Claude McCarthy Fellowship (2016)
- UC Connect PhD Scholarship
- Sir Julius von Haast Award for best Hazard and Disaster Management MSc Thesis
- University of Canterbury Tweet your thesis competition – 1st place (2014)
- Determining Volcanic Risk in Auckland (DEVORA) Research Scholarship (2014)
- International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) – Young Researcher Member
- International Association of Emergency Managers (IAEM) – Student Member
- Volcanic Impacts Study Group, Auckland Lifelines Group – Member
- USGS/GNS Science Volcanic Ash Impacts Group (member of scientific advisory team)
- Undergraduate class representative (2010 – 2011)

SELECTED KEY PUBLICATIONS

Hayes, J.L., Calderon, R., Wilson, T.M., Deligne, N.I., Leonard, G., Jenkins, S.F., Williams, G. (in review). Timber-framed building damage from tephra fall and lahar: 2015 Calbuco eruption, Chile. Journal of Volcanology and Geothermal Research

Hayes, J.L., Tsang, S.W., Fitzgerald, R.H., Blake, D.M., Deligne, N.I., Doherty, A., Hopkins, J.L., Hurst, A.W., Le Corvec, N., Leonard, G.S., Lindsay, J.M., Miller, C.A., Németh, K., Smid, E., White, J.D.L., Wilson, T.M. (2018). The DEVORA scenarios: multi-hazard eruption scenarios for the Auckland Volcanic Field. Lower Hutt (NZ): GNS Science. 138 p. (GNS Science report; 2018/29). doi:10.21420/G20652

Deligne, N.I., Fitzgerald, R.H., Blake, D.M., Davies, A.J., **Hayes, J.L.,** Stewart, C., Wilson, G., Wilson, T.M., Castelino, R., Kennedy, B.M., Muspratt, S., Woods, R. (2017). Investigating the consequences of urban volcanism using a scenario approach I: Development and application of a hypothetical eruption in the Auckland Volcanic Field, New Zealand. Journal of Volcanology and Geothermal Research 336, 192–208. doi:10.1016/j.jvolgeores.2017.02.023

Hayes, J., Wilson, T.M., Deligne, N.I., Cole, J., Hughes, M. (2017). A model to assess tephra clean-up requirements in urban environments. Journal of Applied Volcanology 6, 1. doi:10.1186/s13617-016-0052-3

Hayes, J.L., Rovins, J.E., Brown, N., Sunandang, K., Usdianto, B., Triutomo, S. (2016). Identification of Best Practices in the Development of Disaster Response Frameworks. Report prepared for New Zealand Ministry of Foreign Affairs and Trade (MFAT). Wellington

Hayes, J.L., Wilson, T. M., Magill, C. (2015). Tephra fall clean-up in urban environments. Journal of Volcanology and Geothermal Research, 304, 359–377. doi:10.1016/j.jvolgeores.2015.09.014