

\*Please see the final page of this CV for a [list of acronyms](#)

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESEARCH INTERESTS         | Experimental Design, Bayesian Methods, Computational Inference, Prior Elicitation, Dependence Modeling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CURRENT POSITION           | <b>Postdoctoral Research Fellow</b> (07/2026 – present)<br><a href="#">University of British Columbia, Department of Statistics</a> , Vancouver, Canada<br>(Advisor: <a href="#">Paul Gustafson</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PAST ACADEMIC POSITIONS    | <b>Research Officer</b> (09/2025 – 05/2026)<br><a href="#">University of Queensland, Clinical Trials Capability (ULTRA)</a> , Brisbane, Australia<br>(Advisor: <a href="#">Andrew Martin</a> )<br><br><b>Postdoctoral Scholar</b> (09/2024 – 08/2025)<br><a href="#">McGill University, Department of Epidemiology, Biostatistics &amp; Occupational Health</a> , Montréal, Canada (Advisor: <a href="#">Shirin Golchi</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EDUCATION                  | <b>University of Waterloo</b> , Waterloo, Canada<br><br><b>PhD in Statistics, Department of Statistics &amp; Actuarial Science</b> 09/2021 – 08/2024 <ul style="list-style-type: none"> <li>Thesis: <a href="#">Design with Sampling Distribution Segments</a></li> <li>Advisor: <a href="#">Nathaniel Stevens</a></li> </ul> <b>MMATH in Statistics, Dept. of Statistics &amp; Actuarial Science</b> 09/2020 – 08/2021 <ul style="list-style-type: none"> <li>Master's Research Paper: <i>A More Comprehensive Framework for Binary Response Experiments Using Comparative Probability Metrics</i></li> </ul> <b>BMATH in Mathematical Optimization &amp; Statistics (Co-op)</b> 09/2015 – 04/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PEER-REVIEWED PUBLICATIONS | <b>Published &amp; Accepted</b> <ol style="list-style-type: none"> <li><b>L. Hagar</b>, S. Golchi, and M.B. Klein. (2026+). Group sequential design with posterior and posterior predictive probabilities. <i>Journal of the American Statistical Association</i>, in press. <a href="#">DOI</a>.</li> <li><b>L. Hagar</b> and N.T. Stevens. (2026). Posterior ramifications of prior dependence structures. <i>Statistical Science</i> 41(3): 507-523. <a href="#">DOI</a>.</li> <li><b>L. Hagar</b> and N.T. Stevens. (2026). Design of Bayesian A/B tests controlling false discovery rates and power. <i>Journal of Business and Economic Statistics</i> 44(3): 955–964. <a href="#">DOI</a>.</li> <li>S. Kaminskaïa and <b>L. Hagar</b>. (2026). Language use and articulation rate in a minority French community. In <i>Proceedings of Speech Prosody 2026</i>, 289–293. <a href="#">DOI</a>.</li> <li><b>L. Hagar</b> and S. Golchi. (2026). Design of Bayesian clinical trials with clustered data. <i>Statistics in Medicine</i> 45(6-7), e70488. <a href="#">DOI</a>.</li> <li><b>L. Hagar</b> and N.T. Stevens. (2026). Fast power curve approximation for posterior analyses. <i>Bayesian Analysis</i> 21(1), 255–280. <a href="#">DOI</a>.</li> <li>S. Kaminskaïa and <b>L. Hagar</b>. (2025). Acquisition of temporal aspects of speech by Canadian English learners of French with previous core vs. immersion backgrounds. <i>Canadian Journal of Applied Linguistics</i> 28(3), 181–214. <a href="#">DOI</a>.</li> <li><b>L. Hagar</b> and N.T. Stevens. (2025). An economical approach to design posterior analyses. <i>Journal of the American Statistical Association</i> 120(552), 2559–2568. <a href="#">DOI</a>.</li> <li>S. Kaminskaïa and <b>L. Hagar</b>. (2025). A complex approach to rhythm in a minority French community. <i>LACUS Forum</i> 50(3), 1–14. <a href="#">DOI</a>.</li> <li>W. Cichocki, S. Kaminskaïa, and <b>L. Hagar</b>. (2025). The relationship between articulation rate and utterance length in varieties of Canadian French. <i>LACUS Forum</i> 50(1), 13–26. <a href="#">DOI</a>.</li> </ol> |

6. **L. Hagar** and N.T. Stevens. (2025). Bioequivalence design with sampling distribution segments. *Statistics in Medicine* 44(3-4), e10321. DOI. R Package.
5. S. Kaminskaïa, **L. Hagar**, N. Gadbois, and J.C. Van Leeuwen. (2025). It doesn't sound French, or does it? In *15<sup>th</sup> Annual PSSLT Proceedings*, 1–11. DOI.
4. A. Deng, **L. Hagar**, N.T. Stevens, T. Xifara, and A.K. Gandhi. (2024). Metric decomposition in A/B tests. In *Proceedings of the 30<sup>th</sup> ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 4885–4895. DOI.
3. W. Cichocki, S. Kaminskaïa, and **L. Hagar**. (2024). Regional variation in articulation rate in French spoken in Canada. *Journal of the International Phonetics Association* 54(1), 126–145. DOI.
2. N.T. Stevens and **L. Hagar**. (2022). Comparative probability metrics: Using posterior probabilities to account for practical equivalence in A/B tests. *The American Statistician* 76(3), 224–237. DOI. R Shiny App 1, R Shiny App 2.
1. L. Lu, C.M. Anderson-Cook, N.T. Stevens, and **L. Hagar**. (2022). Using a baseline with the probability of agreement to compare distribution characteristics. *Quality Engineering* 34(3), 322–343. DOI. R Shiny App.

**Submitted for Publication** († denotes co-first authorship)

7. **L. Hagar** and J.M. McGree. (2026+). Computationally efficient experimental design with generalized posteriors. Revision submitted to *Bayesian Analysis*, 09/2026. arXiv.
6. **L. Hagar**, M. Zhang, R. Thomas, and A.J. Martin. (2026+). COBRA-DOSE: Copula-based Bayesian model averaging for dose selection. Submitted to *Biostatistics*, 08/2026. arXiv. R Package.
5. S. Kaminskaïa and **L. Hagar**. (2026+). Variation et changement dans le rythme phonétique en français ontarien minoritaire. Minor revision invited at *Linx*, 08/2026.
4. S. Golchi and **L. Hagar**. (2026+). Bayesian design of clinical trials in the presence of nuisance parameters. Submitted to *Econometrics and Statistics*, 08/2026. arXiv.
3. **L. Hagar**<sup>†</sup>, L. Maleyeff<sup>†</sup>, S. Golchi, and D. Menzies. (2026+). Efficient sample size determination for Bayesian platform trials. Revision submitted to *Journal of the Royal Statistical Society (Series C)*, 06/2026. arXiv.
2. **L. Hagar** and A.J. Martin. (2026+). An efficient framework for robust sample size determination. Submitted to *Statistical Methods in Medical Research*, 03/2026. arXiv.
1. **L. Hagar** and N.T. Stevens. (2026+). An economical approach to design with precision criteria. Submitted to *Biometrika*, 11/2025. arXiv.

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|---------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESEARCH FUNDING<br>AS PI | \$14,773  | AusTriM Seed Funding Grant (2026)                                                                                                                                           |
|                           |           | <ul style="list-style-type: none"> <li>Co-investigators: Andrew Martin, Min Zhang, Ranjeny Thomas</li> </ul>                                                                |
|                           | \$140,000 | NSERC Postdoctoral Fellowship (2024 – 2025, 2026 – 2027)                                                                                                                    |
|                           | \$42,000  | CRM StatLab - CANSSI Postdoctoral Fellowship (Declined, 2024 – 2025)                                                                                                        |
|                           | \$63,000  | NSERC Postgraduate Scholarship – Doctoral (2021 – 2024)                                                                                                                     |
|                           | \$15,000  | Ontario Graduate Scholarship (Declined, 2021 – 2022)                                                                                                                        |
|                           | \$17,500  | NSERC Canada Graduate Scholarship – Master's (2020 – 2021)                                                                                                                  |
|                           | \$4,500   | NSERC Undergraduate Student Research Award (2019)                                                                                                                           |
| SCHOLARSHIPS<br>& AWARDS  | \$1,000   | UW Mathematics Doctoral Prize - Second Place (2025)                                                                                                                         |
|                           |           | <ul style="list-style-type: none"> <li>This award recognizes graduating doctoral students in UW's Faculty of Mathematics. Each department nominates one student.</li> </ul> |
|                           | \$7,500   | ASQ Ellis R. Ott Scholarship for Applied Statistics & Quality (2024)                                                                                                        |
|                           |           | <ul style="list-style-type: none"> <li>This award and the next recognize excellence in academics, teaching, and leadership in the applied statistics community.</li> </ul>  |

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| \$3,500  | ASA Mary G. and Joseph Natrella Scholarship (2024)                                                                                                                                                                                                 |
| \$3,000  | UW SAS Scotiabank Scholarship <ul style="list-style-type: none"> <li>This award recognized course coordination efforts when teaching STAT 341.</li> </ul>                                                                                          |
| \$45,000 | UW President's Graduate Scholarship (2020 – 2024)                                                                                                                                                                                                  |
| \$1,000  | UW SAS Chair's Award (2021 – 2024, $\times 5$ )                                                                                                                                                                                                    |
| \$1,000  | UW SAS Sprott Scholarship (2023) <ul style="list-style-type: none"> <li>This award recognizes PhD students in UW's SAS Department who show particular promise in research prior to their thesis defence.</li> </ul>                                |
| \$500    | UW SAS Teaching Assistant Award (2023) <ul style="list-style-type: none"> <li>This award recognizes teaching assistants whose contributions result in an improvement of the student academic experience.</li> </ul>                                |
| \$1,000  | UW SAS Comprehensive Exam Award (2022) <ul style="list-style-type: none"> <li>This award recognizes top performance on the PhD comprehensive exam in UW's SAS Department.</li> </ul>                                                               |
| \$5,000  | UW SAS Doctoral Entrance Award (2021 – 2022) <ul style="list-style-type: none"> <li>This award is for new PhD students with top academic standing.</li> </ul>                                                                                      |
| \$1,000  | UW SAS Outstanding Academic Performance Award (2021) <ul style="list-style-type: none"> <li>This award is presented to the student(s) with the highest academic performance in the first two terms of their MMath program.</li> </ul>              |
| \$5,000  | UW President's Scholarship of Distinction (2015 – 2020)                                                                                                                                                                                            |
| \$500    | UW Scott Kelsey Fevreau Memorial Award (2017) <ul style="list-style-type: none"> <li>This student award is given based on high academic achievement, extracurricular activities, and personal characteristics.</li> </ul>                          |
| \$1,500  | St. Jerome's University Robert & Margaret Forwell Scholarship (2016) <ul style="list-style-type: none"> <li>This award recognizes a student involved in the St. Jerome's community who demonstrates academic and leadership excellence.</li> </ul> |

#### STUDENT SUPERVISION

##### Co-Supervision

- Maryanne Cleetus (PhD in Epidemiology, UQ) 04/2026 – present
- Co-Supervisors: Bec Jenkinson, Nadine Foster

#### PRESENTATIONS

##### Invited Seminars and Conference Presentations

- Copula-Based Bayesian Model Averaging for Dose Selection*. AusTriM Webinar, Hosted from Melbourne (Australia), 07/2026.
- Bayesian Design with False Discovery Rates and Power*. SSC Annual Meeting, 06/2026.
- Efficient and Robust Sample Size Determination*. Spring Research Conference, Clemson (USA), 05/2026.
- Robust Sample Size Determination for Clinical Trials*. NHMRC Clinical Trial Centre, Sydney (Australia), 05/2026.
- Economical Design with Posterior Probabilities*. Queensland University of Technology, Brisbane (Australia), 11/2025.
- Group Sequential Design with Posterior and Posterior Predictive Probabilities*. AusTriM Webinar, Hosted from Melbourne (Australia), 10/2025.
- Design of Bayesian Clinical Trials with Clustered Data*. Canadian Society for Epidemiology and Biostatistics Conference, 08/2025.
- Economical Computer Experiments for Sequential Design*. Quality and Productivity Research Conference, Seattle (USA), 06/2025.
- Economical Design of Sequential Bayesian Analyses*. SSC Annual Meeting, 05/2025.

9. *An Economical Approach to Design Posterior Analyses*. York University, 02/2025.
8. *Sample Size Determination in Bayesian Clinical Trials with Clustered Data*. McGill University, 02/2025.
7. *Design of Bayesian Clinical Trials with Clustered Data and Multiple Endpoints*. Canadian Network for Bayesian Adaptive Trials Webinar, 01/2025.
6. *Design of Posterior Analyses with Sampling Distribution Segments*. Computational and Methodological (CM)Statistics, London (UK), 12/2024.
5. *Scalable Bayesian Design for Business Innovation*. HEC Montréal, 11/2024.
4. *Scalable Design with Posterior-Based Operating Characteristics*. Joint Research Conference, 06/2024.
3. *A Bayesian Approach to Experimentation*. Airbnb AirAcademy Webinar Series. Hosted from San Francisco (USA), 11/2023.
2. *Targeted Sampling for Scalable Experimental Design*. ASQ CPID Webinar. Hosted from Milwaukee (USA), 11/2023.
1. *Using a Baseline with the Probability of Agreement to Compare Distribution Characteristics*. INFORMS Conference on Quality, Statistics, and Reliability, Raleigh (USA), 06/2023.

### Contributed Presentations

18. [Upcoming] *An Economical Approach to Design with Precision Criteria*. Fall Technical Conference, Charlotte (USA), 10/2026.
17. *Economical Sample Size Calculations for Complex Designs*. Joint Statistical Meetings, Nashville (USA), 08/2025.
16. *Fast Power Curve Approximation for Posterior Analyses*. Bayesian Young Statisticians Meeting. Hosted from Durham (USA), 04/2025.
15. *Fast Design of Posterior Analyses with Operating Characteristics*. ENAR Spring Meeting, New Orleans (USA), 03/2025.
14. *A Complex Approach to Minority French Rhythm*. LACUS Conference, 07/2024.
13. *The Relationship between Articulation Rate and Utterance Length in Canadian French: Data from Reading Style*. LACUS Conference, 07/2024.
12. *Quantile Estimation for Sampling Distributions of Posterior Probabilities*. SSC Annual Meeting, 06/2024.
  - Biostatistics Section Student Presentation Award Winner
11. *Engaging Assessments with Real Data Analysis in Undergraduate Statistics Courses*. UW Teaching and Learning Conference, 05/2024.
10. *Scalable Power Curve Approximation with Targeted Hypercube Sampling*. CANSSI Showcase, 11/2023.
9. *Scalable Power Curve Approximation with Targeted Hypercube Sampling*. Waterloo Student Conference in Statistics, Actuarial Science & Finance, 10/2023.
  - Presentation Award Winner
8. *Fast Sample Size Determination for Bayesian Equivalence Tests*. Joint Statistical Meetings, 08/2023.
7. *Fast Sample Size Determination for Two-Group Equivalence Tests with Unequal Variances*. ISBIS Conference, 07/2023.
6. *Fast Sample Size Determination for Two-Group Equivalence Tests with Unequal Variances*. SSC Annual Meeting, 05/2023.
5. *Fast Sample Size Determination for Bayesian Equivalence Tests*. University of Toronto Statistics Graduate Student Research Day, 04/2023.

4. *A More Computationally Tractable Approach to Bayesian Interval-Based Sample Size Determination*. SSC Annual Meeting, 05/2022.
3. *A More Computationally Tractable Approach to Bayesian Interval-Based Sample Size Determination*. UW SAS Research Presentation Day, 03/2022.
  - Presentation Award Winner
2. *A Framework for Sample Size Determination with Comparative Probability Metrics*. SSC Annual Meeting, 06/2021.
  - Business & Industrial Statistics Section Student Presentation Award Winner
1. *A More Comprehensive Framework for Binary Response Experiments Using Comparative Probability Metrics*. Canadian Statistics Student Conference, 06/2021.

## Workshops

3. *Clinical Trial Concept Development Workshop*. University of Queensland, 02/2026.
2. *From MAMS to Bayesian Platforms: Bridging Theory and Practice*. HeRA ULTRA Showcase, 11/2025. [Google Colab](#).
1. *Sample Size Calculations for Bayesian Clinical Studies*. University of Toronto Health Data Working Group, 04/2025. [GitHub](#).

## RESEARCH EXPERIENCE

**Academic Collaborator, Airbnb** 09/2023 – present

- Navigated changing priorities to develop methods now applied at Airbnb (see *Paper #4*), leading to an invited talk for Airbnb executives and data scientists.

**Consultant, UW Statistical Consulting & Survey Research Unit** 01/2022 – 04/2023

- Guided clients on how to leverage sound statistical approaches in their analyses, with active research collaboration in enhanced service projects (see e.g., *Paper #3*).

## TEACHING EXPERIENCE

**McGill University**, Montréal, Canada

Course Lecturer 08/2024 – 12/2024

- **BIOS 612**: Advanced Generalized Linear Models with 10 graduate students. Co-instructed with Shirin Golchi.

**University of Waterloo**, Waterloo, Canada

Sessional Lecturer 01/2024 – 04/2024

- **STAT 341**: Computational Statistics & Data Analysis with 125 undergraduates. Coordinated two sections with 250 students and managed 6 teaching assistants.

TA Workshop Facilitator 01/2023 – 04/2024

- Facilitated and developed interdisciplinary teaching workshops for graduate students with UW's Centre for Teaching Excellence.

TA Coordinator 09/2023 – 12/2023

- Co-developed a practicum component of the teaching assistant development program for the SAS department and conducted teaching observations for TAs.

Teaching Assistant 01/2017 – 08/2023

- STAT 938: Statistical Consulting (Spring 2023)
- STAT 430: Experimental Design (Spring 2021)
- STAT 341: Computational Statistics & Data Analysis (Winter 2021)
- COMM 421: Financial Statement Analysis (Winter 2021)
- STAT 443: Forecasting (Fall 2020)
- MATH 137: Calculus I (Fall 2017)
- MATH 138: Calculus II (Winter 2017)

### **Fellowships**

- FDA-OCE-ASA [Oncology Fellowship](#) (2024 – 2025)

### **Certificates**

- UW Certificate in University Teaching (2022 – 2023)
- UW New Instructor Foundations Program (2023)
- UW University Mathematics Teaching Techniques (2023)
- UW Fundamentals of University Teaching (2021)

### **External Roles**

#### [SSC Committee on New Investigators](#)

- Chair (07/2026 – present)

#### [ASQ CPID Leadership Team](#)

- Chair (01/2026 - present)
- Chair-Elect (01/2025 - 12/2025)
- Secretary/Treasurer (01/2024 – 12/2024)
- Fall Technical Conference Publicity Chair (01/2023 – 12/2024)

#### [SSC Community Connections Initiative](#)

- Co-Organizer (12/2024 – present)

#### [ZonMw Rational Pharmacotherapy Program](#)

- Clinical Trial Reviewer (07/2026)

#### [ASA Section on Bayesian Statistical Science](#)

- Student Paper Competition Judge (12/2024, 12/2025)

#### [SSC Student and Recent Graduate Committee](#)

- Past Chair (07/2024 – 06/2025)
- Chair (07/2023 – 06/2024)
  - Led a team of 10 members to host community-building and professional events for statistics students and recent graduates in Canada.
- Member (07/2022 – 06/2023)

#### [SSC Canadian Student Statistics Conference](#)

- Judge (06/2024, 05/2026)
- Co-chair (07/2022 – 06/2023)
  - Co-supervised a committee of 15 students to organize a national conference at Carleton University with 170 participants.
- Scientific Program Co-coordinator (09/2021 – 06/2022)

### **Internal Roles**

#### [McGill \(Bio\)Statistics Research and Career Day](#)

- Judge (05/2025)

#### [UW Statistical Workshops and Applications Group](#)

- Executive Team Member (06/2022 – 08/2023)

#### [UW Math Faculty Graduate Studies Committee](#)

- Elected Graduate Student Representative (05/2021 – 08/2023)

#### [UW Math Faculty-Level Student Course Perceptions Working Group](#)

- Graduate Student Representative (03/2022 – 03/2023)

St. Jerome’s University Student Leadership Team

- Peer Academic Leader (09/2015 – 04/2017)

**Conference Session Organizer**

- Invited Sessions
- *Recent Advances by New Investigators Across Canada*, SSC Annual Meeting (2027)
  - *Bayesian Clinical Trials: Innovative Methods for Real-World Challenges*, International Biometric Conference (2026)
  - *Bridging Theory and Practice in Experimental Design*, SSC Annual Meeting (2025)
- Topic-Contributed Sessions
- *Economical Methods for Experimental Design*, Joint Statistical Meetings (2025)

**Conference Session Chair**

- Canadian Statistics Student Conference (2023), Fall Technical Conference (2026), Joint Research Conference (2024), LACUS Conference (2024), Quality and Productivity Research Conference (2025), SSC Annual Meeting (2022, 2023, 2025)

EDITORIAL  
ACTIVITIES

- Reviewer**
- *Banff International Research Station, Bayesian Analysis, Biometrics* (x3), *BMC Medical Research Methodology, Canadian Journal of Statistics* (x2), *Clinical Epidemiology, Computational Statistics* (x3), *Journal of Statistical Theory and Practice, Statistical Methods in Medical Research, Statistics in Medicine, The American Statistician* (x2), *Xenobiotica*

ACRONYMS

|         |                                                                 |
|---------|-----------------------------------------------------------------|
| AusTriM | Australian Trials Methodology Research Network                  |
| ASA     | American Statistical Association                                |
| ASQ     | American Society for Quality                                    |
| CANSSI  | Canadian Statistical Sciences Institute                         |
| CPID    | Chemical and Process Industries Division                        |
| CRM     | Centre de recherches mathématiques                              |
| FDA     | U.S. Food & Drug Administration                                 |
| ENAR    | Eastern North American Region (International Biometric Society) |
| INFORMS | Institute for Operations Research and the Management Sciences   |
| ISBIS   | International Society for Business and Industrial Statistics    |
| LACUS   | Linguistic Association of Canada and the United States          |
| NHMRC   | National Health and Medical Research Council                    |
| NSERC   | Natural Sciences and Engineering Research Council               |
| OCE     | Oncology Center of Excellence                                   |
| SAS     | Statistics & Actuarial Science                                  |
| SSC     | Statistical Society of Canada                                   |
| ULTRA   | University of Queensland’s cLincial TRials cApability           |
| UW      | University of Waterloo                                          |
| UQ      | University of Queensland                                        |
| ZonMw   | The Netherlands Organisation for Health Research & Development  |