

## ANNA YI LEUNG

### Curriculum Vitae

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#### EDUCATION

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| 2021 – 2026<br>(Submitted;<br>awaiting viva) | <b>Dr. in Human Biology, Ludwig-Maximilians-University of Munich</b> <ul style="list-style-type: none"><li>• Thesis: Facilitating Replicability in Dyslexia Research and Beyond: Enhancing Conceptual Clarity and Methodological Rigour in Psychological Science</li><li>• Supervisors: PD Dr. Xenia Schmalz, Prof. Dr. Gerd Schulte-Körne, PD Dr. Kristina Moll, Prof. Dr. Moritz Heene</li></ul> |
| 2019 – 2021                                  | <b>M.Sc. in Psychology: Learning Sciences, Ludwig-Maximilians-University of Munich</b> <ul style="list-style-type: none"><li>• Thesis: Acquisition of Chinese Characters: Necessity and Role of Phonology (Full marks awarded; equivalent to Grade A)</li><li>• Supervisors: PD Dr. Xenia Schmalz, PD Dr. Kristina Moll</li></ul>  |
| 2018 – 2019                                  | <b>M.A. in Psychology, The Chinese University of Hong Kong</b> <ul style="list-style-type: none"><li>• Thesis title: Subtyping of Chinese Developmental Dyslexia (Grade A awarded)</li><li>• Supervisor: Prof. Urs Maurer</li></ul>  |
| 2012 – 2016                                  | <b>B.Ed. in Chinese Language, The Education University of Hong Kong (1<sup>st</sup> Hons)</b> <ul style="list-style-type: none"><li>• Thesis: Phonetic Variation of Hong Kong Cantonese Affricate Consonants (Grade A awarded)</li><li>• Supervisor: Prof. Yuan Liang</li></ul>  |

#### RESEARCH WORK EXPERIENCE (Selected)

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| 04/2025 – Present | <b>Guest Researcher</b> , Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital, Ludwig-Maximilians-University of Munich  |
| 04/2025 – 09/2025 | <b>Scientific Research Associate</b> , Self-Learning Systems Laboratory, Department of Special Education and Rehabilitation, University of Cologne <ul style="list-style-type: none"><li>• Project: Systematising Theory Building in Dyslexia and Reading Research</li></ul>  |
| 10/2021 – 03/2025 | <b>Scientific Research Associate</b> , Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital, Ludwig-Maximilians-University of Munich <ul style="list-style-type: none"><li>• Project: Towards a Falsifiable Framework for Theories in Psychological Science</li></ul>  |
| 04/2020 – 03/2021 | <b>Graduate Research Assistant and Research Intern</b> , Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital, Ludwig-Maximilians-University of Munich <ul style="list-style-type: none"><li>• Project: Magnocellular and Temporal Sampling Deficits in Developmental Dyslexia: Systematic Reviews and Meta-Analyses</li></ul> |
| 09/2018 – 12/2018 | <b>Student Research Assistant</b> , Cognitive Neuroscience of Language Laboratory, The Chinese University of Hong Kong <ul style="list-style-type: none"><li>• Project: Meta-Linguistic vs. Working-Memory Training in Chinese Dyslexia Children</li></ul>  |

- 09/2018 – 12/2018     **Student Research Assistant**, Laboratory for Language, Learning, and the Brain, The Chinese University of Hong Kong
- Project: Visual Attention in Autism Spectrum Disorder: An Eye-Tracking Study Across Eastern and Western Cultures
- 10/2015 – 06/2016     **Student Research Assistant**, Department of Linguistics and Modern Language Studies, Faculty of Humanities, The Education University of Hong Kong
- Project: The Development of a Corpus of Mid-20<sup>th</sup> Century Hong Kong Cantonese
- 03/2014 – 06/2016     **Student Research Assistant**, Department of Chinese Language Studies, Faculty of Humanities, The Education University of Hong Kong
- Project: Analysis of the Taxonomy of Chinese Reading Comprehension Skills

### TEACHING AND OTHER WORK EXPERIENCE (Selected)

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- 04/2022 – 03/2023     **Instructor**, Research Seminar, “Psychometric Evaluation and Development of Morphological Awareness Tests”, for M.Sc. Psychology: Learning Sciences Programme, Ludwig-Maximilians-University of Munich
- 09/2018 – 07/2019     **Substitute Teacher** (Specialisation: Chinese Language, Mandarin, Music, General Studies), S.K.H. St. Michael’s Primary School, Hong Kong
- 09/2016 – 07/2018     **Full-Time Teacher** (Specialisation: Chinese Language, Mandarin, Music), S.K.H. Tin Wan Chi Nam Primary School, Hong Kong
- 06/2015 – 06/2016     **Freelance Textbook Editor (Chinese Language for Primary and Secondary Curricula)**, The Commercial Press, Hong Kong
- 09/2013 – 12/2014     **Public Speaking Tutor**, Belilios Public School (Public Secondary School), Hong Kong
- 07/2013 – 06/2016     **Violin and Viola Teacher**, Tsang Fook Music Centre, Hong Kong

### THESIS SUPERVISION

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- 2023     **Xiaoshu Wu**, M.Sc. Psychology: Learning Sciences, Ludwig-Maximilians-University of Munich
- Thesis: The Measurement of Morphological Awareness: Does the Contextual Information in Test Items Influence the Tests’ Psychometric Properties?

### PUBLICATIONS & MANUSCRIPTS UNDER REVIEW

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**Anna Yi Leung**, Daniel Kristanto, & Xenia Schmalz. (2026, accepted). Re-SearchTerms: A Shiny App for Exploring Terminology Variations in Psychology and Metascience. *Meta-Psychology*.

**Anna Yi Leung**<sup>†</sup>, Tatiana Logvinenko<sup>†</sup>, & Xenia Schmalz. (2026). Dyslexia Research and Replicability: Should We Be Worried? *Mind, Brain, and Education*. (†Shared first authorship)

Elen Le Foll<sup>†</sup>, **Anna Yi Leung**<sup>†</sup>, Désirée Nießen<sup>†</sup>, & Caroline Poppa<sup>†</sup>. (2025). A Comment on Arechar et al.'s (2023) "Understanding and Combatting Misinformation Across 16 Countries on Six Continents". I4R Discussion Paper Series No. 277, Institute for Replication (I4R). (<sup>†</sup>In alphabetical order)

**Anna Yi Leung**<sup>^,\*</sup>, Daniel Kristanto<sup>^,\*</sup>, Carsten Gießing<sup>†</sup>, John. P. A. Ioannidis<sup>†</sup>, Andrea Hildebrandt<sup>\*,†</sup>, & Xenia Schmalz<sup>\*,†</sup>. (2025, submitted to *Royal Society Open Science*; under review). The Multiverse of Developmental Dyslexia Subtyping: The "Mapping Dyslexia Subtypes" (MAP-Dys) App for Analytical Decision-Making. medRxiv. <https://www.medrxiv.org/content/10.1101/2025.07.23.25332032v1> (<sup>^</sup>Project Co-PIs; <sup>\*</sup>Shared first/senior authorship; <sup>†</sup>In alphabetical order)

**Anna Yi Leung**<sup>\*,^</sup>, Xiaoshu Wu<sup>\*</sup>, & Xenia Schmalz. (2025; submitted to *Applied Psycholinguistics*; under review). Measuring Morphological Awareness in English-Speaking Adults: How Task Format, Item Features, and Reading Comprehension Affect Test Item Difficulty? OSF Preprints. [https://osf.io/preprints/osf/v9arq\\_v1](https://osf.io/preprints/osf/v9arq_v1) (Supervisee underlined; <sup>\*</sup>Shared first authorship; <sup>^</sup>Project PI)

**Anna Yi Leung**, Daniel Kristanto, & Xenia Schmalz. (2025). Re-SearchTerms: A Shiny App for Exploring Terminology Variations in Psychology and Metascience. OSF Preprints. [https://osf.io/preprints/osf/qsp7x\\_v2](https://osf.io/preprints/osf/qsp7x_v2)

Xenia Schmalz<sup>†</sup>, Johannes Breuer<sup>†</sup>, Mario Haim<sup>†</sup>, Andrea Hildebrandt<sup>†</sup>, Phillip Knöpfle<sup>†</sup>, **Anna Yi Leung**<sup>†</sup>, Timo B. Roettger<sup>†</sup>. (2025). Let's Talk About Language—And Its Role for Replicability. *Humanities and Social Sciences Communications*. (<sup>†</sup>Equal contributions)

**Anna Yi Leung**, Ivan Melev, & Xenia Schmalz. (2024). Quantifying Concept Definition Heterogeneity in Academic Texts: Insights into Variability in Conceptualization. OSF Preprints. <https://doi.org/10.31219/osf.io/gu7b5>

**Anna Yi Leung**, & Xenia Schmalz. (2023). In Search of Proxy Measures of Heterogeneity in Conceptual Definitions: A Cognitive Linguistic Perspective. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 45. <https://escholarship.org/uc/item/2c80j0rx>

## MANUSCRIPTS IN PREPARATION

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**Anna Yi Leung**, Olga Drobina, Alvaro Darcourt, Salim K. Osei, Lilli Kugelman, & Xenia Schmalz. (In preparation). Magnocellular/Dorsal Deficit in Developmental Dyslexia? Meta-Analyses on Contrast Sensitivity, Coherent Motion, and Serial Search Tasks.

**Anna Yi Leung**, Kristina Moll, & Xenia Schmalz. (In preparation). When Do CFL Learners Need Phonology for Learning Chinese Characters' Meanings?

Sanha Lee, Salim K. Osei, Peter Roßmeier, Aakash Balani, Xenia Schmalz, & **Anna Yi Leung**<sup>^</sup>. (In preparation). Item Difficulty of English Morphological Awareness Tests in a Mixed Sample. (Supervisees underlined; <sup>^</sup>Project PI)

## CONFERENCE PRESENTATIONS

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**Anna Yi Leung**<sup>\*</sup>, Daniel Kristanto, Carsten Gießing<sup>†</sup>, John. P. A. Ioannidis<sup>†</sup>, Andrea Hildebrandt<sup>\*,†</sup>, & Xenia Schmalz<sup>\*,†</sup>. (2025, September). Unravelling the Multiverse of Subtyping Methods in Developmental Dyslexia. Oral presentation at the 18<sup>th</sup> Biennial Conference of the Differential Psychology, Personality Psychology and Psychological Assessment (DPPD) Section of the German Psychological Society, Kassel, Germany. ((<sup>\*</sup>Main presenter, <sup>^</sup>Shared senior authorship; <sup>†</sup>In alphabetical order)

**Anna Yi Leung<sup>\*,†</sup>**, Kristina Moll, & Xenia Schmalz. (2025, September). Can Phonology Help CFL Novice Learners Learn Chinese Characters' Meanings? Oral presentation in the "Exploring Cognitive and Linguistic Mechanisms in Word Processing Across Diverse Languages and Contexts" Symposium at the 24<sup>th</sup> Conference of the European Society for Cognitive Psychology, Sheffield, United Kingdom. (\*Main presenter, <sup>†</sup>Symposium chair)

**Anna Yi Leung<sup>†</sup>**. (2025, June). Barriers to Bridging Theories: Insights from Reading Research in Psycholinguistics and Education. Oral presentation in the "Catalysts of Change: How Can Metascience and Interdisciplinary Research Empower ECRs?" Pre-Conference Virtual Symposium at the Metascience 2025 Conference, London, United Kingdom. (<sup>†</sup>Symposium chair)

**Anna Yi Leung<sup>\*</sup>**, Daniel Kristanto, & Xenia Schmalz. (2025, June). Conceptual Clarity in Open Scholarship: Visualising Variations in Research Term Definitions. Poster presentation at the Freiburg Open Science Mini-Conference 2025, Freiburg, Germany. (\*Main presenter)

**Anna Yi Leung<sup>\*</sup>**, Ivan Melev, Moritz Heene, & Xenia Schmalz. (2024, June). Is It an Issue that Constructs Are Not Measured as Defined? An Empirical Evaluation of Dyslexia Research as a Case Study. Oral presentation "The Role of Language for Replicability in the Social and Behavioural Sciences" Symposium at the Meta-Rep 2024 Conference, Munich, Germany. (\*Main presenter)

**Anna Yi Leung**, Daniel Kristanto, & Xenia Schmalz. (2024, June). Quantifying Concept Definitions in Academic Texts: Insights into Variability in Conceptualisation. Oral presentation "The Role of Language for Replicability in the Social and Behavioural Sciences" Symposium at the Meta-Rep 2024 Conference, Munich, Germany.

**Anna Yi Leung<sup>^\*</sup>**, Daniel Kristanto<sup>^</sup>, Carsten Gießing<sup>†</sup>, John. P. A. Ioannidis<sup>†</sup>, Andrea Hildebrandt<sup>^†</sup>, & Xenia Schmalz<sup>^†</sup>. (2024, October). Exploration of Data Processing and Model Multiverse in Developmental Dyslexia. Oral presentation at the 6<sup>th</sup> All-European Dyslexia & Dyscalculia Conference, Athens, Greece. (<sup>^</sup>Project Co-PIs; <sup>^</sup>Shared senior authorship; <sup>†</sup>In alphabetical order; \*Main presenter)

**Anna Yi Leung<sup>^\*</sup>**, Daniel Kristanto<sup>^</sup>, Carsten Gießing<sup>†</sup>, John. P. A. Ioannidis<sup>†</sup>, Andrea Hildebrandt<sup>^†</sup>, & Xenia Schmalz<sup>^†</sup>. (2024, September). Multiverse Analysis for Profiling Methods: Application to Subtyping Developmental Dyslexia. Oral presentation in the "Facilitating Replication through Automation, Standardisation of Procedures and Machine Learning" Symposium at the 53<sup>rd</sup> DGPs Congress / 15<sup>th</sup> ÖGP Conference, Vienna, Austria. (<sup>^</sup>Project Co-PIs; <sup>^</sup>Shared senior authorship; <sup>†</sup>In alphabetical order; \*Main presenter)

**Anna Yi Leung<sup>^\*</sup>**, Daniel Kristanto<sup>^</sup>, Carsten Gießing<sup>†</sup>, John. P. A. Ioannidis<sup>†</sup>, Andrea Hildebrandt<sup>^†</sup>, & Xenia Schmalz<sup>^†</sup>. (2024, September). Multiverse Analysis of Developmental Dyslexia Subtyping Methods. Oral presentation at the 15<sup>th</sup> International Conference of Health Sciences, Pristina, Kosovo. (<sup>^</sup>Project Co-PIs; <sup>^</sup>Shared senior authorship; <sup>†</sup>In alphabetical order; \*Main presenter)

**Anna Yi Leung<sup>\*</sup>**, Ivan Melev, Moritz Heene, & Xenia Schmalz. (2024, June). Is It an Issue That Constructs Are Not Measured as Defined? An Empirical Evaluation of Dyslexia Research as a Case Study. Poster presentation in the Extraordinary Brain Symposium XX, Malta. (\*Main presenter)

**Anna Yi Leung<sup>^\*</sup>**, Xiaoshu Wu<sup>^</sup>, Danielle Colenbrander, & Xenia Schmalz. (2024, February). Tell Me More About the Wug: Do Contextual Cues in English Morphological Awareness Tests Affect Item Difficulty? Oral presentation at the 8<sup>th</sup> Annual Conference for the Association for Reading and Writing in Asia, Jeju, South Korea. (Supervisees underlined; \*Main presenter; <sup>^</sup>Shared first authorship; <sup>^</sup>Project PI)

**Anna Yi Leung<sup>^\*</sup>**, Xiaoshu Wu<sup>^</sup>, & Xenia Schmalz. (2024, February). Does the Contextual Information in Test Items Influence English Morphological Awareness Measure's Psychometric Properties? Oral presentation at the 3<sup>rd</sup> Virtual Words in the World International Conference. (Supervisees underlined; \*Main presenter; <sup>^</sup>Shared first authorship; <sup>^</sup>Project PI)

**Anna Yi Leung\***, & Xenia Schmalz. (2023, July). In Search of Proxy Measures of Heterogeneity in Conceptual Definitions: A Cognitive Linguistic Perspective. Poster presentation at the 44<sup>th</sup> Annual Meeting of the Cognitive Science Society, Sydney, Australia. (\*Main presenter)

**Anna Yi Leung\***, Olga Drobina, Alvaro Darcourt, Salim K. Osei, Lilli Kugelman, & Xenia Schmalz. (2023, July). Are There Magnocellular/Dorsal Deficits in Developmental Dyslexia? A Meta-Analysis on Contrast Sensitivity, Coherent Motion, and Serial Search Tasks. Poster presentation at the Society for the Scientific Study of Reading Conference (SSSR) 2023, Port Douglas, Australia. (\*Main presenter)

Xenia Schmalz, **Anna Yi Leung**, & Claudio Mulatti. (2023, June). How Do We Falsify Causal Theories of Dyslexia? Oral presentation at the International Workshop on Reading and Developmental Dyslexia (IWORDD), San Sebastian, Spain.

Sanha Lee, Salim K. Osei, Peter Roßmeier, Aakash Balani, Xenia Schmalz, & **Anna Yi Leung**. (2023, March). The Adaptation and Validation of Open-Source Morphological Awareness Tests for Web-Based Experiments. Poster presentation at the TeaP, The Annual Meeting of the General Psychology Section of the German Psychological Society (DGPs), Trier, Germany. (Supervisees underlined)

Salim K. Osei, Peter Roßmeier, Sanha Lee, Aakash Balani, Xenia Schmalz, & **Anna Yi Leung\***. (2023, February). Item Discriminability of English Morphological Awareness Tests in a Mixed Sample. Oral presentation at the 7<sup>th</sup> Annual Conference for the Association for Reading and Writing in Asia, Hong Kong. (Supervisees underlined; \*Main presenter)

Peter Roßmeier, Sanha Lee, Salim K. Osei, Aakash Balani, Xenia Schmalz, & **Anna Yi Leung**. (2023, February). Adapting and Validating Open-Source Morphological Awareness Tests for Web-Based Experiments. Oral presentation at the Cognitive Science Arena, Brixen, Italy. (Supervisees underlined)

**Yi Leung\***, Kristina Moll, & Xenia Schmalz. (2021, March). Is Phonological Information Necessary for Learning the Meanings of Chinese Semantics-Phonetic Compound Characters? Poster presentation at the 5<sup>th</sup> Annual Conference for the Association for Reading and Writing in Asia, Taipei, Taiwan. (\*Main presenter)

## GRANTS AND AWARDS

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04/2025	<b>DAAD Congress Travel Funding</b> , The 24 <sup>th</sup> Conference of the European Society for Cognitive Psychology, Sheffield, United Kingdom, funded by the German Academic Exchange Service (DAAD) (Full amount awarded)
02/2024	<b>Student Conference Scholarship</b> , The 8th Annual Conference for the Association for Reading and Writing in Asia (ARWA 2024), Jeju, South Korea (HKD 1,000 awarded)
11/2022	<b>“Treasure Box” Research Grant for Early-Career Researchers</b> , META-REP Priority Programme, funded by German Research Foundation (DFG) Co-Applicant (with Dr. Daniel Kristanto) (EUR 2,000 awarded)
02/2016	<b>Shun Hing Chinese Language Scholarship</b> , The Education University of Hong Kong (HKD 1,000 awarded)
08/2015 & 08/2016	<b>Dean’s Honour List</b> , The Education University of Hong Kong

## GRANT WRITING EXPERIENCE (Selected)

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08/2024	<b>Project Grant: Systematising Theory Building in Dyslexia and Reading Research</b> , META-REP Priority Programme, German Research Foundation (DFG) Co-Applicant (PI: PD Dr. Xenia Schmalz) (EUR 351,299 awarded)
08/2024	<b>Literacy and Dyslexia as a Global Phenomenon: Cognitive Processes of Reading Across Languages and Individuals</b> , Heisenberg Grant, German Research Foundation (DFG) (Main Applicant: PD Dr. Xenia Schmalz)
10/2023	<b>Making Sense of Causal Theories: The Case of Developmental Dyslexia</b> , European Research Council (ERC) Starting Grant 2024 (Main Applicant: PD Dr. Xenia Schmalz)
06/2023	<b>Towards Replicability and Falsifiability in Psychological Science</b> , European Research Council (ERC) Starting Grant 2023 (Main Applicant: PD Dr. Xenia Schmalz)

## ORGANISATIONAL ROLES AND ACADEMIC SERVICES

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11/2025 – Present	<b>Project Leader</b> , “Re-SearchTerms” Shiny App Integration for the Framework for Open and Reproducible Research Training (FORRT), part of the “FORRT for World Development (FORWARD)” programme of the “International Decade of Sciences for Sustainable Development (IDSSD, 2024–2023)”, UNESCO and United Nation
09/2025	<b>Symposium Organiser and Chair</b> , The “Exploring Cognitive and Linguistic Mechanisms in Word Processing Across Diverse Languages and Contexts” Symposium at the 24 <sup>th</sup> Conference of the European Society for Cognitive Psychology, Sheffield, United Kingdom.
06/2025	<b>Symposium Organiser and Chair</b> , The “Catalysts of Change: How Can Metascience and Interdisciplinary Research Empower ECRs?” Pre-Conference Virtual Symposium (2025, June) at the Metascience 2025 Conference, London, United Kingdom.
03/2025	<b>Panel Discussion Moderator</b> , TRUST Open Lecture: “Standardisation in Research: Increasing Replicability or Stalling Scientific Progress?”, The TRUST Network, University of Cologne, Cologne, Germany
10/2024	<b>Conference Organiser &amp; Webmaster</b> , The International Meeting on Quantifying Semantic-Orthographic Regularities Across Languages (QuaSemO 2024), Munich, Germany.
2023 – Present	<b>Journal and Conference Reviewer</b> , <i>Child Development</i> , <i>Dyslexia</i> , CogSci Conference
2023 – Present	<b>Journal Club Secretary and Webmaster</b> , The German Word Nerd Network (GeWoNN)

## PROFESSIONAL ASSOCIATIONS

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**Student / Postgraduate Members:** European Society for Cognitive Psychology (ESCOP), Cognitive Science Society (CSS), Society for the Scientific Study of Reading (SSSR), Experimental Psychology Society (EPS), The Association for Reading and Writing in Asia (ARWA)

## WHOLE-PERSON DEVELOPMENT (Selected)

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10/2024	<b>Replication Games Workshop</b> , META-REP 2024 Conference, Munich, Germany
02/2023	<b>Psicostat Workshop: Outlier Analysis</b> , Cognitive Science Arena 2023, Brixen, Italy
10/2022	<b>Workshop on Advanced Power Analyses</b> , LMU Open Science Center, Ludwig-Maximilians-University of Munich
09/2022	<b>The Sixth Summer School on Statistical Methods for Linguistics and Psychology</b> , University of Potsdam
08/2022	<b>Workshop on Good Scientific Practice</b> , Ludwig-Maximilians-University of Munich
03/2021 – Present	<b>Member</b> , Philosophia Munich, Germany
10/2018 – 09/2019	<b>Volunteer Tutor</b> , Hong Kong Red Cross Princess Alexandra School, Hong Kong
06/2018	<b>Volunteer Training Programme</b> , The Society of Rehabilitation and Crime Prevention, Hong Kong
05/2014 – 07/2014	<b>Mandarin Chinese Immersion Programme</b> , Southwest University, Chongqing, China
05/2014 – Present	<b>Violin Player</b> , Belilios Public School Old Girls' String Orchestra, Hong Kong
12/2008 – 11/2016	<b>Treasurer</b> , S.K.H. Chai Wan St. Michael's Primary School Alumni Association, Hong Kong

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## LANGUAGES

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English (C1), Cantonese (Native), Mandarin Chinese (C2), German (B2), French (A2)

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## SKILLS AND ABILITIES

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### Statistics, Data Processing, and Programming

- Frequentist and Bayesian multilevel modelling, structural equation modelling, cluster analysis, item response theory, parametric bootstrapping simulation, meta-analysis, multiverse analysis, natural language processing (NLP)
- R and Shiny App, Python, SPSS, PsychoPy, OpenSesame, HTML, Praat, CLAN

### Teaching

- Classroom assessment and test development, curriculum design, language pedagogies, cooperative learning and problem-based learning pedagogies, co-teaching, counselling and mediation