Jingyin [Jon] He

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language   English, Chinese

Education

PH.D, VICTORIA UNIVERSITY OF WELLINGTON (NZ) — 2013-2017
Concentration: Sonic Arts and Engineering
Dissertation: Re-Visioning Guqin Performance through Interface Design, Digital
                Measurement, and Signal Processing

M.F.A, CALIFORNIA INSTITUTE OF THE ARTS (USA) — 2011-2013
Concentration: Music technology: Interaction, Intelligence and Design
                with Integrated Media
Dissertation: Beyond the Paradigm of Sound: Aesthetics and Methodologies in
                Contemporary Sonic Art Practice

Appointments

COLLEGE OF CREATIVE ARTS, MASSEY UNIVERSITY (NZ) — 2018-PRESENT
Senior Lecturer, Music Technology
Program Leader for Master of Creative Enterprise

DIVISION OF HUMANITIES, YALE-NUS COLLEGE (SG) — 2016-2017
Postdoctoral Fellow for New Media (Sonic Arts)

RYKER LABS (SG) — 2017-2019
Technology Innovation Consultant — research and development, creative applications of
voice-user interface in consumer electronics for tourism and hospitality

MCNAMARA RESEARCH (NZ) — 2015-2016
Creative Technologist — big data visualisation and analysis

Public and Professional Service

Computer Music Journal — 2023 — Present
Reviewer for scientific papers

**International Conference On Computation, Communication, Aesthetics, And X — 2017—
Present**
Reviewer for scientific papers, performances and installations.

International Conference On New Interfaces For Musical Expression — 2014—Present
Reviewer for scientific papers, performances and installations.

Australasia Computer Music Conference — 2022
Organiser and reviewer for scientific papers, performances and installations.

Asia Aotearoa Arts Hui — 2022, 2023
Organiser and collaborator.

Academic Awards, Scholarships, Grants

Best Professional Work, Australasia Computer Music Conference — 2023
Laywood And Joyce Chan Award (History & Culture), Victoria University Foundation — 2015

Selected Performances, Exhibitions, and Invited Panels

TRANSIENT
He, J., B, Johnston, and B. Johnson. In Australasia Computer Music Conference. Sydney, Australia. 2023. (performance)

SERRATE STUDY NO. 3
He, J. 2022 Ars Electronica Garden Aotearoa. Wellington, New Zealand. 2022. (installation)

00010000PTEROPTYX: A MECHATRONIC SOUND INSTALLATION FORMALIZED BY ENTRAINMENT.
He, J. 2021 International Computer Music Conference. Santiago, Chile. 2021. (installation)

STRATUM, INHABITANTS
He, J. In *roots* by SAtheCollective. Singapore, 2021. (installation)

SOUNDS OF OUR ANCESTORS
He, J., and Horo, H. Presented at Te Papa Museum. 2019. Wellington, New Zealand. (performance)

HIGH MOUNTAIN AND RUNNING WATER.
Wu, N., Gao, P., Dong, F., and He, J. Chengdu Cosmopolis#1.5: Enlarged Intelligence in Collaboration with the Centre Pompidou. Chengdu, China. Nov 2018. (performance)

NEW TOPOLOGIES
Lee, Y., Kaan, S., He, J., and Lee, K. A. Asian Aotearoa Arts Hui 2018 Symposium. Wellington, New Zealand. Sep 2018. (Panel)

RE-VISIONING CHINESE ANTIQUITY
He, J. Invited Panelist for International Symposium Travels in Trans-Sensoriality. Singapore, 2017. (Panel)

Publications

BOOK
Jingyin (Jon) He. In Carvalhais, M., Range, A., Ribas, L., and Verdicchio, M. Book of X. Pg. 267-9. i2ADS, Porto, Portugal. 2022.

REFEREED JOURNALS
He, J., Murphy, J., Kapur, A., Carnegie, D. Parametrically-Dense Motion Sensing Devices and Robotic Musical Instruments. ICMA Array, vol. 2016, Pg. 79-85. 2016.

He, J., Kapur, A., Carnegie, D. Contemporary Practices of Extending Traditional Asian Instruments Using Technology. Organised Sound 19(2), Pg.136-145. Cambridge University Press, 2014.

He, J., Hochenbaum, J., Kapur, A. VIE: An Automata Sequencer. eContact! 16(2). Canadian Electroacoustic Community. 2014.

Christopher, K., He, J., Kapur, A., Carnegie, D. Interactive Sound Synthesis Mediated Through Computer Networks. eContact! 16(2). Canadian Electroacoustic Community. 2014.

REFEREED CONFERENCE PROCEEDINGS

Bunn, T., He, J., Murnieks, A., and Rudnicki, R. PaperTracker: A Gamified Music & Tech Teaching Tool. Siggraph Asia 2020.

He, J. serraE: Re-Visioning the Chinese Yu as Mechatronic Musical Instruments Towards Revitalization and Preservation. 2019 International Conference on Computation, Communication, Aesthetics and X. Milan, Italy.

He, J., Murphy, J., Kapur, A., Carnegie, D. Investigating Guqin Left Hand Modulations. Proceedings of 2017 International Computer Music Conference. Shanghai, China. Oct 16-20, 2017.

He, J., Murphy, J., Kapur, A., Carnegie, D. Towards Related-Dedicated Input Devices for Parametrically Rich Mechatronic Musical Instruments. Proceedings of 2017 International Conference on New Interfaces for Musical Expression.

He, J. Re-Visioning Guqin Performance. 19th International CHIME Meeting: The New Face of Chinese Music. Haute école de musique de Genève, Switzerland. October 2015.

He, J., Kapur, A. and Carnegie, D. Characterizing Guqin Zou Shou Yin: Analyzing physical gesture data of Guqin performers to categorize sliding tones. Proceedings of 2015 International Symposium on Performance Science. Kyoto, Japan. Sep 2-5, 2015.

He, J., Kapur, A., Carnegie, D. Developing a Physical Gesture Acquisition System for Guqin Performance. Proceedings of 2015 International Conference on New Interfaces for Musical Expression. Baton Rouge, Louisiana. June 2015.

Park, T.H., Turner, J., Jacoby, C., Marse, A., Musick, M., Kapur, A., He, J. Locative Sonification: Playing the World through Citygram. Proceedings of the 2013 International Computer Music Conference.

He, J., Kapur, A. Formalization Using Organic Systemization for Musical Applications. Proceedings of the 2013 International Conference on Computation, Communication, Aesthetics and X. June 2013.

Christopher, K., He, J., Kapur, R., Kapur, A. Kontrol: Hand Gesture Recognition for Music and Dance Interaction. Proceedings of the 2013 International Conference on New Interfaces for Musical Expression. May 2013.

Pedagogical Experience

Design and develop academic and administrative content of courses; coordinate and administer the delivery of courses.

MASSEY UNIVERSITY — 2018-PRESENT

138.385	Music Software Development 2
133.386	Music Hardware Development 2
133.186	Musical Interface and Interaction 1
133.281	Musical Interface and Interaction 2
133.381	Musical Interface and Interaction 3
133.287	Applied Lighting and Visuals for Music
289.223	Media Tech Project
293.701	Prototype & Synopsis
293.702	Commercial Viability
293.703	Advanced Creative Enterprise

YHU2257	Introduction to Music Technology
YHU2265	Interface Design for Time-based Art Forms
YHU3255	Performative Elements across Space and Medium
YHU4224	Making Performance Across Mediums
Week 7 LAB	Urban Soundscapes (info)

TEACHING ASSISTANT, VICTORIA UNIVERSITY OF WELLINGTON (NZ) — 2013-2016

New Zealand School of Music

CMPO181	Introduction to Music Technology
CMPO211	Computer Music Programming for Live Electronics
CMPO281	Interface Design for Live Electronics
CMPO381	Creative Projects in Sonic Arts

School of Engineering and Computer Science

| ECEN201 | Data Acquisition |

GRADUATE ASSISTANT, CALIFORNIA INSTITUTE OF THE ARTS (USA) — 2012-2013

CS313A/ MI613A	Intro to Programming for Digital Artist A
CS313B/ MI613B	Intro to Programming for Digital Artist B
MI330A/B, MI630A/B	Interface Design for Music and Media
MI150/ MI650	Sound Synthesis
MI155/ MI655	Advance Sound Synthesis
MI360	Audio Signal Processing

CALIFORNIA INSTITUTE OF THE ARTS (USA) — 2012-2013

Course design and facilitator for Max/MSP programming workshop

LASALLE COLLEGE OF THE ARTS (SG) — 2012

Adjunct lecturer, administer teaching delivery of digital audio production

Research Experience

RESEARCH ASSISTANT, CALIFORNIA INSTITUTE OF THE ARTS, USA — 2012-2013

National Science Foundation grant. Teaching computer science principles for digital media artists under the mentorship of principal investigator, Dr. Ajay Kapur.

RESEARCHER FOR CITYGRAM: VISUALIZING URBAN ACOUSTIC ECOLOGY, USA — 2012-2013

Collaboration between NYU and CalArts, funded by Google Research Grant. Developing hardware for remote audio data acquisition and software for real-time data visualization.

PROGRAMMER, DIGITAL INTEGRATED MEDIA STUDIO, CALIFORNIA INSTITUTE OF THE ARTS, USA — 2012

Human-Computer interaction design and hardware interface programming for artist-in-residence, Thomas Ankersmit for 2012 CEIAT (CalArts Center for Experiments in Art, Information and Technology) Festival at REDCAT.

ARTIST-IN-RESIDENCE, STEIM, NL — 2011

Workshop residency on instrument design and user interaction for digital musical instruments.

Referees

Name: Dr. Bridget Johnson
Position: Head of School
Institution: School of Music & Creative Media Production, Massey University, Wellington
Email: B.D.Johnson@massey.ac.nz

Name: Dr. Ajay Kapur
Position: Director, Music Technology: Interaction, Intelligence and Design (MTIID)
Institution: California Institute of the Arts
Email: akapur@calarts.edu