**Curriculum Vitae**

**PART 1**

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| **1a. Personal details** |
| **Full name** | *Title*Dr | *First name*Mickey (Jui-Lin) | *Second name(s)* | *Family name*Fan |
| **Present position** | National Heart Foundation Research Fellow |
| **Organisation/Employer** | University of Otago |
| **Contact Address** | PO Box 7343 |
| Wellington South |
| Wellington 6242 | **Post code** | 1922 |
| **Work telephone** | (04) 918 5395 | **Mobile** | 021 296 8936 |
| **Email** | mickey.fan@otago.ac.nz |
| **Personal website**  | http://www.otago.ac.nz/uow-physiology/staff/otago491001.html |

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| **1b. Academic qualifications** |

2014 Doctorate of Neuroscience, Lemanic Neuroscience Doctoral School, University of Lausanne, Switzerland.

2009 Master of Science with distinction, Physiology, University of Otago.

2007 Postgraduate diploma in Science with distinction, Physiology, University of Otago.

2006 Bachelor in Science, Physiology, University of Otago.

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| **1c. Professional positions held** |

2015-present New Zealand Heart Foundation Research Fellow, University of Otago

2013-2015 Assistant diplômé, University of Lausanne

2009-2010 Research assistant, University of Otago

2008-2009 Laboratory demonstrator, University of Otago

2006-2007 Research assistant, University of Otago

2006-2007 Laboratory tutor, University of Otago

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| **1d. Present research/professional speciality** |

My current research interest lies in cerebral blood flow regulation in health and pathological conditions.

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| **1e. Total years research experience** |  10 years |

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| **1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc.)** |

2017 Prix du Doctorat de la 4S (PhD thesis award), Swiss Society of Sport Sciences

2016 Member of the American Physiological Society

2015 Prix de Faculté (Faculty PhD thesis award), Faculty of Biology and Medicine, University of Lausanne

2014 New Zealand Heart Foundation Fellowship

2014 University of Otago Research Grant

2014 Student member of the American Physiological Society

2013 Doc.Mobility fellowship, The Swiss National Science Foundation

2011 Young Investigator Award, 16th annual European College of Sport Science Congress

2011 Young Investigator Award, 3rd annual SGS/4S conference of the Swiss society of Sport Science

2010 Student member of the European College of Sports Sciences

2010 Cambridge Trusts Bursary, University of Cambridge

2010 Admitted into University of Cambridge PhD programme

2009 Masters Award, New Zealand Royal Society MacDiarmid Young Scientist of the Year

2009 Finalist in the International Hypoxia Symposia, Student and Fellow Award

2008 University of Otago Postgraduate Award

2008 University of Otago, Department of Physiology, Departmental Award

2008 Finalist in Otago Medical School Research Society Student Speakers Award

2007 Finalist in Otago Medical School Research Society Student Speakers Award

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| **1g. Total number of *peer reviewed* publications and patents** | Journal articles | Books, book chapters, books edited | Conference proceedings | Patents |
| 27 | 0 | 15 | 0 |

**PART 2**

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| **Research publications and dissemination**  |

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| Peer-reviewed journal articles |
| 1. Lucas RAI, Wilson LC, Ainslie PN, **Fan JL**, Thomas KN, Cotter JD. The independent and interactive effects of incremental heat strain, orthostatic stress and mild hypohydration on cerebral perfusion. *Am J Physiol Regul Comp Integr Physiol*. 2017 Dec DOI: 10.1152/ajpregu.00109.2017*.*
2. **Fan JL**, O’Donnell T, Lanford J, Wong LK, Clarkson AN, Tzeng YC. Effect of dietary nitrate supplementation on blood pressure variability and vascular function in high-risk transient ischemic attack patients. *J Clin Trials*. 2016, 6:6. DOI: 10.4172/2167-0870.1000293.3
3. **Fan JL** & Kayser B. Fatigue and exhaustion in hypoxia: role of cerebral oxygenation. *High Alt Med Biol*. 2016 Jun; 17(2): 72-84. DOI 10.1089/ham.2016.0034.
4. **Fan JL**, Subudhi AW, Duffin J, Lovering AT, Roach RC, Kayser B. AltitudeOmics: Resetting of cerebrovascular CO2 reactivity following acclimatization to high altitude. *Front Physiol*. 2016 Jan. DOI 10.3389/fphys.2015.00394.
5. Bourdillon N, **Fan JL**, Uva B, Muller H, Meyer P, Kayser B. Effect of oral nitrate supplementation on pulmonary hemodynamics during exercise and time trial performance in normoxia and hypoxia: A randomized controlled trial. *Front Physiol*. 2015 Nov; 6:288. DOI 10.3389/fphy.2015.00288.
6. Bhambhani Y, **Fan JL**, Place N, Rodriguez-Falces, Kayser B. Electromyographic, cerebral, and muscle hemodynamic responses during intermittent, isometric contractions of the biceps brachii at three submaximal intensities. *Front Physiol*. 2014 Jun; 5:190.
7. Subudhi AW, **Fan JL**, Evero O, Bourdillon N, Kayser B, Julian CG, Lovering AT, Roach RC. AltitudeOmics: Effect of ascent and acclimatization to 5260 m on regional cerebral oxygen delivery. *Exp Physiol*. 2014 May; 99(5):772-781*.*
8. Bourdillon N, **Fan JL**, Kayser B. Cerebral oxygenation during Richalet hypoxia sensitivity test and cycling time-trial performance in severe hypoxia. *Eur J App Physiol*. 2014 May; 114(5):1037-48.
9. **Fan JL**, Sududhi AW, Evero O, Bourdillon N, Kayser B, Lovering AT, Roach RC. AltitudeOmics: Enhanced cerebrovascular reactivity and ventilatory response to CO2 with high altitude acclimatisation and re-exposure. *J Appl Physiol*. 2014 Apr; 116(7):911-8*.*
10. **Fan JL**, Kayser B. Repeated pre-syncope from increased inspired CO2 in a background of severe hypoxia: a case-report. *High Alt Med Biol*. 2014 Apr; 15(1): 70-7*.*
11. Subudhi AW, **Fan JL**, Evero O, Bourdillon N, Kayser B, Julian CG, Lovering AT, Ronney B, Roach RC. AltitudeOmics: Effect of ascent, acclimatization, and re-exposure to 5,260 m on cerebral autoregulation. *J App Physiol*. 2014 Apr; 116(7):724-9*.*
12. Subudhi AW, Bourdillon N, Bucher J, Davis C, Eillot J, Eutermoster M, Evero O, **Fan JL**, Jameson-Van Houton S, Julian CG, Kark J, Kark S, Kern J, Kayser B, Kim SE, Lathan C, Laurie SS, Lovering AT, Paterson R, Polaner D, Ryan BJ, Spira J, Tsao J, Wachsmuth NB, and Roach RC. AltitudeOmics: The intergrative physiology of human acclimatization to hypobaric hypoxia and its memory on reascent. *PLoS One.* 2014 Apr; 9(3):e92191*.*
13. **Fan JL**, Kayser B. The effect of adding CO2 hypoxic inspired gas on cerebral blood flow velocity and breathing during incremental exercise. *PLoS One*. 2013 Nov; 8(11):e81130*.*
14. **Fan JL**, Bourdillon N, Kayser B. Effect of end-tidal CO2 clamping on cerebrovascular function, oxygenation and performance during 15 km time trial cycling in severe normobaric hypoxia: the role of cerebral O2 delivery. *Physiol Rep*. 2013 Jul; 1(3):1-15.
15. Ainslie PN, Lucas SJ, **Fan JL**, Thomas KN, Cotter JD, Tzeng YC, Burgess KR. Influence of sympathoexcitation at high altitude on cerebrovascular function and ventilatory control in humans. *J Appl Physiol*. 2012 Oct; 113(7):1058-67.
16. **Fan JL**, Leiggener C, Rey F, Kayser B. Effect of inspired CO2 on ventilatory response to high intensity exercise. *Respir Physiol Neurobiol*. 2012 Mar; 180(2-3):283-8*.*
17. **Fan JL**, Burgess KR, Thomas KN, Lucas SJ, Cotter JD, Kayser B, Peebles KC, Ainslie PN. Effect of acetazolamide on cerebrovascular function and breathing stability at 5,050 m. *J Physiol*. 2012 Mar; 590(5):1213-25*.*
18. Ross EZ, Cotter JD, Wilson L, **Fan JL**, Lucas SJ, Ainslie PN. Cerebrovascular and corticomotor function during progressive passive hyperthermia in humans. *J App Physiol*. 2012 Mar; 112(5):748-58.
19. **Fan JL**,Burgess KR, Thomas KN, Peebles K, Lucas SJE, Lucas RAI, Cotter JD, Ainslie PN. Influence of indomethacin on the ventilatory and cerebrovascular responsiveness to hypoxia. *Eur J Appl Physiol*. 2011 Apr; 111(4):601-10.
20. Lucas SJ, Burgess KR, Thomas KN, Donnelly J, Peebles KC, Lucas RA, **Fan JL**, Basnyat R, Cotter JD, Ainslie PN. Alterations in cerebral blood flow and cerebrovascular reactivity during 14 days at 5050 m. *J Physiol*. 2011 Feb; 589(30):741-53*.*
21. **Fan JL**,Burgess KR, Thomas KN, Peebles K, Lucas SJE, Lucas RAI, Cotter JD, Ainslie PN. Influence of indomethacin on ventilatory and cerebrovascular responsiveness to CO2 and breathing stability: the influence of PCO2 gradients. *Am J Physiol Regul Comp Integr Physiol*. 2010 Jun; 298(6):R1648-58.
22. Lucas RAI, Ainslie PN, **Fan JL**, Wilson LC, Thomas KN, Cotter JD. Skin cooling aids cardiovascular and cerebrovascular function under severe but not moderate heat stress. *Eur J Appl Physiol*. 2010 May; 109 (1):101-8.
23. Wilson LC, Cotter JD, **Fan JL**, Lucas RAI, Thomas KN, Ainslie PN. Cerebrovascular reactivity and dynamic autoregulation in tetraplegia. *Am J Physiol Regul Comp Integr Physiol*. 2010 Apr; 298(4):R1035-42.
24. Burgess KR, **Fan JL**, Thomas KN, Lucas SJE, Peebles K, Dawson A, Swart M, Bilson K, Ainslie PN. Exacerbation of obstructive sleep apnoea by oral indomethacin. *Chest*. 2010 Mar; 137(3):707-10.
25. **Fan JL**,Burgess KR, Basnyat R, Thomas KN, Peebles K, Lucas SJE, Lucas RAI, Cotter JD, Ainslie PN. Influence of high altitude on cerebrovascular and ventilatory responsiveness to CO2. *J Physiol*. 2010 Feb; 588(P3):539-49.
26. Thomas KN, Burgess KR, Basnyat R, Lucas SJ, Cotter JD, **Fan JL**, Peebles KC, Lucas RA, Ainslie PN. Initial orthostatic hypotension at high altitude. *High Alt Med Biol*. 2010 Summer; 11(2):163-7.
27. **Fan JL**, Cotter JD, Lucas RA, Thomas KN, Wilson LC, Ainslie PN. Human cardiorespiratory and cerebrovascular function during severe passive hyperthermia: effects of mild hypohydration. *J Appl Physiol*. 2008 Aug; 105(2):433-45.
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| Peer reviewed books, book chapters, books edited |
| n/a |
| Refereed conference proceedings |
| 1. **Fan JL**. Effect of hypoxia on the control of brain blood flow during rest and exercise: role of brain oxygen delivery on performance. 10th 4S congress 2018, Macolin/Magglingen, Switzerland.
2. **Fan JL**. Central fatigue: a blood flow perspective. 7th 4S congress 2015, Lausanne, Switzerland.
3. **Fan JL**, Subudhi AW, Evero O, Bourdillon N, Kayser B, Julian CG, Panerai RB, Lovering AT, Roach RC. AltitudeOmics: The effect of high altitude and acclimatisation on cerebral blood flow regulation. Experimental Biology 2014, San Diego, CA, USA.
4. **Fan JL**, Subudhi AW, Evero O, Bourdillon N, Kayser B, Lovering AT, Roach RC. AltitudeOmics: Enhanced brain blood flow control with high altitude acclimatisation and re-exposure. Hypoxia Symposia 2013, Lake Louise, Alberta, Canada.
5. **Fan JL**, Kayser B. Repeated pre-syncope from increased inspired CO2 in a background of severe hypoxia: a case report. Hypoxia Symposia 2013, Lake Louise, Alberta, Canada.
6. **Fan JL**, Burgess KR, Cotter JD, Donnelly J, Kayser B, Lucas SJE, Lucas RAI, Peebles KC, Thomas KN, Ainslie PN. Effect of acetazolamide on ventilatory control and cerebrovascular function at 5,050 m. HypoxiaNet meeting 2011, Monte Verita, Ascona, Switzerland
7. **Fan JL**, Stucky F, Kayser B. Effects of end-tidal PCO2 clamping on brain blood flow and maximal exercise capacity in Hypoxia. European College of Sport Science Congress 2011, Liverpool, United Kingdom.
8. **Fan JL**, Leiggner C, Rey F, Kayser B. Effect of end-tidal PCO2 on ventilatory response during incremental exercise. American College of Sports Medicine Congress 2011, Denver, Colorado, United States.
9. **Fan JL**, Leiggner C, Rey F, Kayser B. Effect of end-tidal PCO2 on ventilatory response during incremental exercise. National Swiss Sports Congress 2011, Lausanne, Switzerland.
10. **Fan JL**, Thomas KN, Lucas SJE, Burgess KR, Lucas RAI, Peebles KC, Donnelly J, Cotter JD, Ainslie PN. Differential changes in chemo- and cerebrovascular responsiveness in Sherpas at high altitude. The New Zealand Medical Journal. 2009 Apr;122(1293).
11. **Fan JL**, Lucas RAI, Wilson LC, Thomas KN, Cotter JD, Ainslie PN. Effects of severe passive hyperthermia on cardiorespiratory and cerebrovascular function. The New Zealand Medical Journal. 2007 Nov;120(1265).
12. **Fan JL**, Thomas KN, Lucas SJ, Burgess KR, Peebles KC, Donnelly J, Lucas RA, Cotter JD, Ainslie PN. Blunted chemoreceptor and cerebrovascular responsiveness in Sherpas at high altitude. Hypoxia Symposia 2009, Lake Louise, Alberta, Canada.
13. **Fan JL**, Burgess KR, Thomas KN, Peebles KC, Lucas RAI, Cotter JD, Lucas SJE, Ainslie PN. Changes in the control of respiration at high altitude; influence of cerebral blood flow reactivity to CO2. Hypoxia Symposia 2009, Lake Louise, Alberta, Canada.
14. **Fan JL**, Lucas RAI, Wilson LC, Thomas KN, Cotter JD, and Ainslie PN. Baroreflex control of peripheral vascular resistance and heart rate during moderate and severe heat stress. International Symposium on Physiology and Pharmacology of Temperature Regulation 2009, Matsue, Japan.
15. **Fan JL**,Burgess KR, Thomas KN, Peebles KC, Lucas RAI, Cotter JD, Lucas SJE, Ainslie PN. Alterations in cerebral blood flow and ventilatory reactivity to CO2 at high altitude; implications in the development of periodic breathing. Medical Science Congress 2008, Queenstown, New Zealand.
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| Patents |
| n/a |
| Other forms of dissemination (reports for clients, technical reports, popular press, etc) |
| n/a |