

Forrest Fabian Jesse

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Research My research direction is the biological internet, focusing on neurotransmission. I am director for Beijing Xixuan Laboratory and a post-doctoral researcher at the University of Washington.

2019-present Post-doctoral research associate, *DXARTS, University of Washington*
2012-present Primary investigator, *Beijing Xixuan Laboratory*
2015-2016 Scientist, *Beijing MySky Corporation*
2013-2014 Secretary, Superbrain research center (最强大脑研究中心), *Bio-X Institute*
2012-2014 Ph.D research, optigenetics, *Shanghai Jiao Tong University, Bio-X Institute*
2011-2013 Ph.D research, electrophysiology, neural growth, *Beijing Sports University*
2007-2010 Ph.D research, computer engineering, *Beijing Jiaotong University*
2003-2006 Masters research, laser based augmented reality, *State University of New York, Buffalo*

Education Ph.D, MFA
2017 Ph.D, Human Computer Interaction Engineering, *Beijing Jiaotong University*
2007 Chinese Language and Culture, *Tsinghua University*
2006 Master of Digital Arts Production, Robotics, *State University of New York at Buffalo, Department of Media Study*
2004 Media Study, *University at Buffalo, Department of Media Study*
1995 Computer Modeling and Animation, *University of Toronto, School of Landscape Architecture*

Publications List following this page. Favorites below.
2016 *Entropy NOR: Early Functional Completeness In Entropy Networks*. Fluctuation and Noise Letters. 15(1), 1650004.
2014 *Optical Fiber Laser Guidance System* 光纤激光束引导装置 (China Patent 201420024068)
1999 *the Portable Road*, Monograph

Teaching
Optigenetics, basic research, *Shanghai Jiao Tong University, Bio-X Institute*
Virtual Architecture, *University at Buffalo*
Advanced Modeling, *University at Buffalo*
Multimedia, *Canisus College*
Modeling and Animation, *University of Toronto*

Media Appearances Appearing in both English and Chinese language on popular television and radio in the US and China, I have spoken on neurotransmission, augmented reality, the biological internet, and China-US relations.

Enterprises
2012-2022 Director & CEO, Xixuan Corporation Beijing
2003-2013 Director, Jesse Corporation New York
1995-1997 Proprietor manager, Runningland New York

Public Service
5/2011–2013 Founding Member & Board Member, *Together Charity Fund*, Beijing
2012 Service Award, *China Retirees Association*
2011 Foreign Language Service Award, *City of Beijing*
2008 Olympic Volunteer for Media and International Relations



杰西

我的研究方向是人和计算之间的交互基础,面向生物互联网的人机交互结构研究。

- 2019-现在 博士后研究, *DxArts*, 华盛顿大学
- 2012-现在 主任, 北京曦轩实验室
- 2013-2014 秘书, 最强大脑研究中心
- 2012-2014 上海交通大学Bio-X研究院独立研究: 神经电路课题
- 2011-2013 北京体育大学独立研究: 神经电路课题
- 2007-2010 北京交通大学博士研究: 人机交互课题
- 2003-2006 激光增强现实, 纽约州大学

教育

- 2016 博士, 人机交互工程, 北京交通大学
- 2007 中文, 清华大学
- 2006 MFA, 纽约州大学, 传媒学院, 机器人专业
- 2004 BA, 纽约州大学, 传媒学院
- 1997 计划文凭, 加州UCLA/UC Berkeley
- 1995 计划文凭, 计算机建模和动画, 多伦多大学

教学

- 1995 – 2006 讲师
 - 光遗传和脑科学基础课研究, 上海交通大学
 - 计算机建模与绘制, 纽约州大学, Medaille College
 - 增强现实, 纽约州大学
 - 多媒体演示, Canisus College
 - 三维建模和动画, 多伦多大学

社会兼职

- 2011–2013 创始成员和董事会成员, 和慈善基金, 北京
- 2012 服务奖, 中华夕阳会
- 2011 服务奖, 北京市交管局; 外语服务奖, 北京市
- 2009 中国六十周年国庆志愿者
- 2008 北京奥运会志愿者

Favorite Publications					
Title	Author	Publication	Identifier	Vol.	pp
On Red, Stop. Simple speed and stop control for traffic automation.	1	OSA Technical Digest/Optical Society of America	JTu3A 2018	98	
Entropy NOR: Early Functional Completeness in Entropy Networks	1	Fluctuation and Noise Letters /World Scientific	0219-4775	15(1) 2016	1650004
Auricular Tensing For Indication of Intent On a Visual Selection Vector	1	Presence Teleoperators & Virtual Environments/ MIT	1054-7460	24(2) 2015	175-178
A Constant Illumination Optical Transmission Method for Freespace Biological Networks	1	OSA Technical Digest/Optical Society of America	JT3A 2015	46	6.3
Optical Fiber Light Source Directs Neurite Growth	1	Biomedical Optics Express/ Optical Society of America	2156-7085	4(4) 2013	614-618
Carbon Monoxide Augments Electrical Signaling In Cultured Neural Networks of Hippocampal Neurons Partly Through Activation of BKCa Channels	6	Acta Biochimica et Biophysica Sinica	1672-9145	47 (5) 2015	383-389
Association Study of TPH2 Polymorphisms and Bipolar Disorder in the Han Chinese population.	9	Progress In Neuro-Psychopharmacology and Biological Psychiatry/ Elsevier	0278-5846	56 2015	97-100
No Association of SLC6A3 And SLC6A4 Gene Polymorphisms With Schizophrenia In The Han Chinese Population	6	Neuroscience Letters/ Elsevier	0304-3940	579 2014	114-118
A Simple Spatial Working Memory And Attention Test On Paired Symbols Shows Developmental Deficits In Schizophrenia Patients	5	Neural Plasticity/ Hindawi	2090-5904	2013	130642
Colour Harmonisation For Images And Videos Via Two-Level Graph Cut.	4	IET Image Processing/ IET	1751-9659	5(7) 2011	630-643
Foreground Prediction For Bilayer Segmentation of Videos.	4	Pattern Recognition Letters/ Elsevier	0167-8655	32 (14) 2011	1720-1734