**CURRICULUM VITAE**

**JIE QIAO M.D., Ph.D.**

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**Education**

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| 1993 - 1996 M.D., Ph.D. | Obstetrics [and Gynecology](https://fanyi.so.com/?src=onebox" \l "(department of) gynaecology and obstetrics" \t "https://www.so.com/_blank) (OBGYN), Beijing Medical University Third Hospital, Beijing, China |
| 1987 - 1990 M.S. | OBGYN, Beijing Medical University Third Hospital, Beijing, China |
| 1981 - 1987 B.S. | [Clinical Medicine](https://fanyi.so.com/?src=onebox" \l "clinical medicine" \t "https://www.so.com/_blank), Beijing Medical University, Beijing, China |

**Postdoctoral Training**

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| 2002 - 2003 | Postdoctoral Fellow  Department of OBGYN, Stanford University Medical Center, Stanford University, California, U.S.A. |
| 1987 - 1990 | Visiting Fellow  Department of OBGYN, Queen Mary Hospital, University of Hong Kong, Hong Kong, China |

**Faculty Academic Appointments**

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| --- | --- |
| 2023-Present | Fellow of The World Academy of Sciences (TWAS) |
| 2021-Present | Honorary Fellow, Royal College of Obstetricians and Gynaecologists |
| 2020-Present | Academician, Academician of American Academy of Arts and Sciences(IHM) |
| 2018-Present | Chair, Department of OBGYN, Peking University, Beijing, China |
| 2017-Present | Academician, Chinese Academy of Engineering, Beijing, China(CAE) |
| 2016-Present | Visiting Professor, Robinson Research Institute, University of Adelaide, Adelaide, Australia |
| 2016-Present | Professor, Beijing Advanced Innovation Center for Genomics, Beijing, China |
| 2015-Present | Professor, Peking-Tsinghua Center for Life Science, Peking University, Beijing, China |
| 2001-Present | Professor, Department of OBGYN, Peking University Third Hospital, Beijing, China |

**Hospitals/Affiliated Institutions Appointments**

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| --- | --- |
| 2001-Present | Chief Physician, Department of OBGYN, Peking University Third Hospital, Beijing, China |
| 1997-2001 | Associated Chief Physician, Department of OBGYN, Peking University Third Hospital, Beijing, China |
| 1992-1997 | Attending Physician, Department of OBGYN, Peking University Third Hospital, Beijing, China |
| 1990-1992 | Resident, Department of OBGYN, Peking University Third Hospital, Beijing, China |

**Major Administrative Leadership Positions**

***Local***

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| --- | --- |
| 2021-Present | Executive Vice President, Peking University |
| 2020-Present | Executive Vice Deputy Director, Peking University Health Science Center |
| 2018 | Chair, 30th Anniversary of Successful Application of ART in Mainland China, Beijing, China |
| 2012-2023 | President, Peking University Third Hospital, Beijing, China |
| 2003-2018 | Course Director, New Progress Seminar on Reproductive Endocrine Diseases and Assisted Reproductive Technology (ART) National Continuing Education Course, Beijing, China |
| 2003-2018 | Director, Reproductive Medicine Center, Peking University Third Hospital, Beijing, China |
| 2001-2018 | Chair, Department of OBGYN, Peking University Third Hospital, Beijing, China |

***National/International***

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| 2019-Present | Board Director, ISRG |
| 2017 | Co-chair, 3rd Asia Pacific Initiative on Reproduction (ASPIRE) Masterclass  Preimplantation Genetic Testing: Screening and Diagnosis, Beijing, China |
| 2016-Present | Board Member/Chair Local, International Federation of Fertility Societies (IFFS)  Co-chair of IFFS World Congress 2019, Shanghai, China |
| 2011-2013 | President, Chinese Special Interest Group (ChSIG) of American Society for Reproductive Medicine (ASRM) |

**Academic Appointments and Professional Societies**

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| --- | --- |
| 2021-Present | Vice President, China Association for science and technology |
| 2021-Present | Vice president, Chinese Medical Association |
| 2018-Present | Vice President, Obstetrics and Gynecology Society of Chinese Medical Association |
| 2018-Present | President, Genetics Society of China |
| 2018-Present | President, China Women Doctors Association |
| 2018-Present | Chair, Academic Committee, Key Laboratory of Reproductive Health, [National Health Commission (NHC)](https://fanyi.so.com/" \l "National Health and Family Planning Commission (NHFPC)" \t "https://fanyi.so.com/_blank), China |
| 2018-Present | Vice President of Chinese Medical Association |
| 2016-Present | Board Member, Department of Biology and Medicine, Science and Technology, Ministry of Education, China  Chair of the Department of life medicine, Science and Technology Commission of the Ministry of Education |
| 2016-Present | Board Member, Academic Committee, State Key Laboratory of Stem Cell and Reproductive Biology, Institute of Zoology, Chinese Academy of Sciences |
| 2015-Present | Chair, Professional Committee on Reproductive Medicine, Chinese Medical Doctors Association |
| 2015-Present | Director, Institute of Reproductive Health Research and Integrated Chinese and Western Medicine |
| 2015-Present | Director, National Clinical Research Center of Obstetrics and Gynecology Disease, Beijing, China |
| 2012-2015 | President, Chinese Medical Society of Reproductive Medicine |
| 2012-Present | President, Beijing Medical Society of Reproductive Medicine |
| 2012-Present | Board member, The Androgen Excess and Polycystic Ovary Syndrome Society (AE-PCOS Society) |
| 2011-Present | Director, Key Laboratory of Assisted Reproduction, Ministry of Education |
| 2011-Present | Director, Beijing Key Laboratory of Reproductive Endocrinology and Assisted Reproduction |
| 2008-Present | Chair, the Training Base for ART, Ministry of Health |

**Editorial Activities**

***Ad hoc Reviewer***

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| *Lancet* |
| *Human Reproduction* |
| *Fertility and Sterility* |
| *[Reproductive BioMedicine Online](https://www.baidu.com/link?url=E2r9gEZt30fmi0ZgJDcTocgf45LbC32Er6Iz6ykyAyq-ffLPKVTZq26tdab-3GvO&wd=&eqid=b8d593af000070c6000000035bf387b5" \t "https://www.baidu.com/_blank)* |
| *[European Journal of Obstetrics & Gynecology](http://www.baidu.com/link?url=Bm3BgyZQ0rU7iyqTb-OLW14KyBCqbtPhSphghCOdNY2uKbAnNMw64GvRyRC5mE0OKLlv3bSn69uWTuvuCfFsnMYaCyZnXCujXiNorBnJQ05mlqQyxPlCCk3Chf2cN8rU" \t "https://www.baidu.com/_blank)* |
| *[British](http://www.baidu.com/link?url=E_vMrwfcpjkxoFlnqRgkbShaQ8UOMaa0HpIVmDyU2CPH8Fce53bnW6-jIdNkx65r7xyzolxceMu6hdiNwSANx_" \t "https://www.baidu.com/_blank) Journal of Obstetrics & Gynecology* |

***Other Editorial Roles***

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| 2023-Present | BMJ’s regional advisory board for Asia Pacific |
| 2019-Present | Special Consultant, NEJM Medical frontier |
| 2019-Present | Chief Editor, BMJ Quality and Safety (Chinese version) |
| 2018-Present | Chief Editor, Human Reproduction Update (Chinese version) |
| 2015-Present | Chief Editor, Chinese Journal of Minimally Invasive Surgery |
| 2012-Present | Chief Editor, Journal of Reproduction and Contraception (Chinese) |
| 2011-Present | Editorial Board Member, Journal of Reproductive Biology and Endocrinology |
| 2010-Present | Editorial Board Member, Journal of Seminars in Reproductive Medicine |
| 2010-Present | Editorial Board Member, Journal of Asian Journal of Andrology |

**Honors and Awards**

***International Awards***

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| 2019 | C3 China Summit award for Outstanding Woman’s Achievement |
| 2018 | The First Honorary Member of Asia Pacific Initiative on Reproduction |
| 2017 | American Society for Reproductive Medicine Star Award |
| 2013-2014 | American Society for Reproductive Medicine Outstanding Leadership |
| 2012 | China Medical Board Distinguished Professorship Award |
| 2012 | Honorary Chair of the Society of LAPAROENDOSCOPIC SURGEONS |
| 2011 | World-Renowned Chinese Reproductive Medicine Scientist Award |

***National Awards***

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| 2022 | China's important medical achievements in the 21st century |
| 2020 | National Award of Advanced individual in the battle of COVID-19 |
| 2020 | National Innovation Award |
| 2017 | National Award for Progress in Science and Technology (Second Award) |
| 2011 | National Award for Progress in Science and Technology (Second Award) |
| 2009 | National Award for Progress in Science and Technology (Second Award) |

***Provincial Awards***

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| 2021 | Highlight Achievement Award in Science and Technology, Beijing Government (First Award) |
| 2018 | Zhonghua Medicine Award |
| 2018 | Tanjiazhen Life Science Award |
| 2016 | National Outstanding Science and Technology Talents Award |
| 2016 | Chinese Physician Award |
| 2016 | Chinese Medical Science and Technology Award (First Award) |
| 2015 | Highlight Achievement Award in Science and Technology, Ministry of Education (First Award) |
| 2015 | Outstanding Contribution Experts, NHC |
| 2015 | Highlight Achievement Award in Science and Technology, Beijing Government (First Award) |
| 2015 | Chinese Population Prize for Science and Technology Award |
| 2015 | Beijing “Model Worker” |
| 2014 | Highlight Achievement Award in Science and Technology, Ministry of Education (First Award) |
| 2013 | Capital Distinguished Scientist |
| 2013 | Wu Jieping-Paul Janssen Medical & Pharmaceutical Award |
| 2012 | Beijing Distinguished Scholars |
| 2011 | HO LEUNG HO LEE FOUNDATION for Medical Science and Material |
| 2011 | Highlight Achievement Award in Science and Technology, [Beijing Government](https://link.zhihu.com/?target=http%3A//www.ebeijing.gov.cn/Government/Mayor_office/" \t "_blank)(Second Award) |
| 2010 | Innovative Research Team in University |
| 2010 | Changjiang Scholars |
| 2010 | New Century Million Professionals |
| 2009 | CMWA WUZHOU Women Science and Technology Award |
| 2008 | Highlight Achievement Award in Science and Technology, Ministry of Education (First Award) |
| 2008 | Winner of National Outstanding Youth Fund |

***Teaching Awards***

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| 2022 | Outstanding Graduate Tutor Award,, Beijing, China |
| 2021 | Special prize for teaching achievement,Peking University |
| 2017 | First prize of teaching achievement,Peking University |
| 2016 | Beijing famous teaching teacher award of colleges and Universities, Beijing, China |
| 2015 | Top ten tutors Award,Peking University |
| 2015 | Famous teacher award,Peking University Health Science Center, Beijing, China |
| 2014 | Outstanding Mental Award, Peking University Health Science Center, Beijing, China |
| 2013 | Extraordinary Professor Award, Beijing, China |
| 2013 | Teaching Excellence Award, Peking University Health Science Center, Beijing, China |
| 2012 | Teaching Excellence Award, Peking University Health Science Center, Beijing, China |
| 2011 | Teaching Management Excellence Award, Peking University Health Science Center, Beijing, China |
| 2009 | Teaching Management Excellence Award, Peking University Health Science Center, Beijing, China |
| 2007 | Professors' Ethics Model, Beijing, China |

**Narrative Report**

Prof. Qiao is an accomplished and remarkable reproductive physician, biological scientist, educator, and medical administrator in China and worldwide. She is the TOP 10 expert in obstetrics and gynecology in Google Scholar. For more than 30 years, she has devoted herself to the enterprise of maternal and child health security and national health care system management and led her team to continuously develop and forge ahead, delve into research and clinical work, striven to improve the standards of medical treatment and scientific research in reproductive medicine in China.

China has a large population and a high incidence of infertility and congenital disabilities. More than 50 million people across the country suffer from infertility diseases. Every year, about 900,000 new congenital disabilities are added. Prof. Qiao's clinical work focuses on diagnosing and treating difficult infertility, including preventing and controlling genetic diseases. Patients across the country came to the Reproductive Medicine Center at Peking University Third Hospital (PUTH) she led. The center received 655,827 ambulatory visits and performed 17,636 In Vitro Fertilization (IVF) cycles in 2021. Also, she led her clinical team in conducting investigations on the prevalence and the characteristics of Polycystic Ovary Syndrome (PCOS) in China and proposing the features of hirsutism diagnostic criteria tailored to the Chinese population. She has participated in the building of consensus on international hypertrichosis diagnosis and treatment, and it was adopted by the PCOS diagnostic standard in China. Further, she is also constantly exploring new causes of PCOS, proposing a new potential path for the treatment of PCOS from the perspective of intestinal flora published in Nature Medicine (2019). Thus, on the 25th anniversary of the founding of Nature Medicine, Prof. Qiao was invited to write an article entitled "Realizing the Dream of reproducible medicine," reviewing her continuous efforts in clinical research over the years.

Meanwhile, she also led doctors from her hospital and OBYGN Department to operate free clinics and to participate in medical services for various social and public events, including Beijing 2022 Olympic Winter Games and Paralympic Winter Games. During the most severe COVID-19 pandemic in China, as the leader of the National medical aid team for Hubei of Peking University, she was responsible for critical and maternal care. She led the team to establish efficient and high-quality acute care wards. As a physician in obstetrics and Gynecology, her team investigated the risk of mother-to-child vertical transmission for the first time and timely published comments and clinical research results in top international journals NEJM (2020) and Lancet (2020). Moreover, her suggestions on the diagnosis and treatment of pregnant women have been added to the Guidelines on the Novel Coronavirus-Infected Pneumonia Diagnosis and Treatment (Provisional 7th Edition) in China. She also sent clinicians to assist in remote areas with poor medical conditions, like Tibet and Xinjiang autonomous regions, train local physicians latest diagnostic and therapeutic techniques, establish an efficient counterpart-assistance system, etc. She and her team believe that the right to health is a fundamental human right rich in connotations, and they hope that their efforts have brought the remote areas the hope of life. These activities have been conducted aiming to promote health equity in China.

During her clinical practice, she has acutely captured vital scientific issues and endeavored to unravel the profound mystery of human reproduction. From the organism environment to the cell and the molecular levels, she has always striding forward on the road to precision medicine. She is the chief editor of 42 books and has published 265 scientific papers as the first or corresponding author. The molecular mechanisms studies of mammalian oocyte maturation and embryonic development were published in Science, Cell, Nature, Nat Struct Mol Biol, Lancet, JAMA, etc. The transcriptome and DNA methylome study of human primordial germ cells, which was published in Cell, was assessed as a highly cited paper and one of the top papers in the field of molecular biology and genetics by the Web of Science. Nature News commented on her team's work: "Researchers have for the first time determined the genome sequence of human egg cells without destroying them," and "This is a game changer." Both BBC News and TIME commented, "Mapping the genetic code of fertilized eggs could double the success rate of IVF." Professor Wolf Reik from the University of Cambridge said, "This knowledge will help to better understand the epigenetic regulation of human development." Based on these researches, Prof. Qiao has established a database of human germ cells and embryo development based on our research results and other international publications. The database contents include heredity, epigenetic inheritance, gene expression, and their correlation, and is available internationally for free download and use (http://www.devomics.org/). So far, scholars from 87 countries and regions have visited 400000 times. These achievements will significantly contribute to the development of human reproductive medicine.

Prof. Qiao has also devoted herself to promoting the transformation of research findings into clinical applications. Based on advanced basic research, she actively applies the results to clinical practice, bringing hope to more infertile patients. Her center successfully secured the delivery of the second international case, China's first "Tri-Frozen" IVF baby, and the world's first Multiple Annealing and Looping-based Amplification Cycles (MALBAC) baby (PNAS, 2015). Based on an innovative preimplantation genetic diagnosis method, mutated allele revealed by sequencing with aneuploidy and linkage analyses (MARSALA), her achievement now represents the pioneer level of In Vitro Fertilization-Preimplantation Genetic Diagnosis (IVF-PGD) technique of the world. MARSALA-PGT enables simultaneous diagnosis of mutation sites, chromosomal abnormalities, and linkage analysis of embryos and has been well applied to clinical practice. Until now, thousands of families with rare genetic diseases have entered the MARSALA-PGT process, and 299 monogenic diseases can be diagnosed. Among them, 28 genes have not been reported in the world. At present, more than 300 healthy babies have been born, and the technology has been extended to more than 50 reproductive centers in China and worldwide. She was interviewed by Nature on PGD in China, with a comment that "Fertility centres are making a massive push to increase PGD in a bid to eradicate certain diseases."

Although the situation has been unprecedentedly improved for maternal health and child survival in China over the past two decades, China still faces tremendous challenges in this field. In 2021, Prof. Qiao published "A Lancet Commission on 70 years of women's reproductive, maternal, newborn, child, and adolescent health in China" (Lancet,2021). This Commission aims to review past achievements and lessons and then prioritize steps toward the SDGs and Healthy China 2030, which will achieve substantial changes in the healthcare system and make it the most suitable for the Chinese population.

Based on the above achievements in clinical and scientific research in reproductive medicine, she obtained the TOP 10 Advances in Chinese Science and National Award for Progress in Science and Technology twice. Now, she leads the compilation of guidelines for key special projects of the Ministry of Science and Technology of China, setting the direction for the development of reproductive medicine in China in the next five years.

In view of her outstanding contribution to the field of Medical & health sciences, especially maternal and child health in China, she was awarded the title of Academician of the Chinese Academy of Engineering in 2017, Academician of the American Academy of Arts and Sciences in 2020, and Royal College of Obstetricians and Gynaecologists in 2021. Currently, as the Executive Vice President of Peking University and the Director of Peking University Health Science Center, Prof. Qiao is standing on a broader platform to continue to promote the development of comprehensive medical education, scientific research, and high-quality medical treatment in China.