

## 贺晓霞个人简历

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导航工程中心助理研究员，出生于1977年12月16日，籍贯为内蒙古自治区

### 主要研究领域

仪器科学与技术  
精密仪器与测试  
导航与控制

### 联系方式

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## 工作经历

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### 教育

学 位	获得年月	攻读学位单位
学士	1999.7	清华大学
硕士	2004.1	清华大学
博士	2004.1	清华大学

### 主要科研工作

1999年~2000年在清华大学导航中心从事温度对微硅加速度计的影响的研究。

2000年~2003年在清华大学导航中心参加十五重点攻关项目，负责高精密度球形转子的质量平衡技术的研究工作

2004年~2005年在清华大学精仪系作博士后，主要从事某系统的结构总体设计。

## 教育工作

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## 文章和专利

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### 专著：

1. 丁衡高，贺晓霞，高钟毓. 应用惯性技术验证广义相对论. 清华大学出版社，2005.10

### 论文：

1. 贺晓霞，高钟毓，王永樑. 两种球形转子平衡装置干扰力矩的比较. 仪器仪表学报. 2004, 25(5): 681~683

2. 贺晓霞，高钟毓，李树文，孙新民. 球形转子不平衡量的一种自动测量方法. 机械工程学报. 2004, 40(2): 50~54

3. He Xiaoxia, Gao Zhongyu, Wang Yongliang. Theory of MUM for Metal Spherical Rotor with Contactless Suspension. Chinese Journal of Mechanical Engineering. 2004, 17(2): 243~246

4. He Xiaoxia, Gao Zhongyu, Wang Yongliang. Affects Of Sphericity Of Spherical Rotor On Precision Of Mass Unbalance Measurement.

Proceedings of Symposium of Gyro Technology, Stuttgart, 2004

5. 贺晓霞, 高钟毓, 王永樑. 静压气体球轴承支承球形转子的干扰力矩分析. 惯性技术学报. 2002, 10(6):56-61. 注: 作为惯性技术学会推选文章(共5篇)参加中国科协年会

6. 贺晓霞, 高钟毓, 吴秋平. 球形转子静电平衡装置支承电极形状的选择. 清华大学学报. 2003, 43(2): 192-195

7. 贺晓霞, 高钟毓, 吴秋平. 半碗六电极悬吊球形转子的静电场干扰力矩分析. 机械工程学报. 2003, 32(3): 19-22

8. 贺晓霞, 高钟毓, 王勇. 图像处理技术在球形转子质量不平衡测量中的应用. 上海图像图形学报, 2003, 8(A) .Spec: 120~123

9. 吴秋平. 高钟毓. 王永梁. 贺晓霞. 纳米级变间隙半球电容计算及其测量电路研究. 南京理工大学学报(自然科学版). 2004, 28(1): 42-47

## 家庭

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## Vita

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Family Name: He

Given Name: Xiao-Xia

Gender: Female

Citizenship: People's Republic of China

Birth Data and Place: Dec, 16, 1977, Inner Mongolia Autonomy, China

Job Title: Research Assistant Professor

Research Interests

Instrument Science and Technology

Precision Instrument and measurement

Navigation and Control

Contact

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## Working experience

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Education

Dr. Degree, Instrument Science and Technology, —Tsinghua University, Beijing(2004.1)

M.S. Degree, Instrument Science and Technology, —Tsinghua University, Beijing(2004.1)

B.S. Degree, Precision Instrument and Measurement—Tsinghua University, Beijing(1999.7)

Research Experience

? Designed a small scaled thermostatic system whose precision is within  $\pm 0.2^{\circ}\text{C}$  and using this device examined the temperature's influence upon micro-machined accelerometer response. (1999~2000)

? Developed a device to automatically measure the mass unbalance of a high-precision sphere and a device measuring the radical mass unbalance of the sphere with high spinning speed. (2000~2003)

? Responsible for integrated design of a certain high-precision gyroscope. (2004~2005)

## Education

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## Publications and Patents

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BOOK:

1. Ding Henggao, He Xiaoxia, Gao Zhongyu. The Application of Inertial Technology for Testing General Relativity. Tsinghua University Press. 2005.10 (In Chinese)

Publications:

1. He Xiaoxia, Gao Zhongyu, Wang Yongliang. Disturbing Torque Analysis of Two Devices for Balancing Spherical Rotor. Chinese Journal of Scientific Instrument. 2004, 25(5): 681-683 (In Chinese)
2. He Xiaoxia Gao Zhongyu Li Shuwen Sun Xinmin. AUTOMATIC METHOD TO MEASURE MASS UNBALANCE OF SPHERICAL ROTOR. Chinese Journal of Mechanical Engineering. 2004, 40(2): 50-54 (In Chinese)
3. He Xiaoxia, Gao Zhongyu, Wang Yongliang. Theory of MUM for Metal Spherical Rotor with Contactless Suspension. Chinese Journal of Mechanical Engineering. 2004, 17(2): 243-246
4. He Xiaoxia, Gao Zhongyu, Wang Yongliang. Affects Of Sphericity Of Spherical Rotor On Precision Of Mass Unbalance Measurement. Proceedings of Symposium of Gyro Technology, Stuttgart, 2004
5. HE Xiaoxia, GAO Zhongyu, WANG Yongliang. Disturb torque on a spinning spherical sphere supported by a hydrostatic gas spherical bearing. Journal of Chinese Inertial Technology. 2002, 10(6):56-61. (In Chinese)
6. HE Xiaoxia, GAO Zhongyu, WU Qiuping. Selection of electrode geometry for balance device of a spherical rotor. Journal of Tsinghua University(Science and Technology). 2003, 43(2): 192-195 (In Chinese)
7. He Xiaoxia Gao Zhongyu, Wu Qiuping. BASIC ELECTROSTATIC FIELD DISTURBING TORQUE IN DEVICE WITH HALF-BOWL ELECTRODES SUPPORTING SPHERE ROTOR. Chinese Journal of Mechanical Engineering. 2003, 32(3): 19-22 (In chinese)
8. HE Xiaoxia, GAO Zhongyu, Wang Yong. Application of Image Processing Technology in Mass Unbalance Measurement of Sphere. Journal of Image and Graphics. 2003, 8(A). Spec: 120-123 (In Chinese)
9. WU Qiuping, GAO Zhongyu, WANG Yongliang, HE Xiaoxia. Calculation and Measurement of Variable-gap Hemisphere Capacitance with Nanometer Resolution. Journal of Nanjing University of Science and Technology. 2004, 28(1): 42-47 (In Chinese)

## Family

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