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## 郑桂珍

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### 郑桂珍

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### 教育经历:

1984/09-1988/06 吉林大学 理学光学 学士

1988/09-1991/06 中科院上海光机所 理学光学 硕士

1998/09-2003/06 中国海洋大学 物理海洋学 博士

### 工作经历:

1991/07-1994/06 青岛理工大学 数理学院 助教

1994/07-1997/04 青岛理工大学 数理学院 讲师

1997/05-1999/12 中国海洋大学 海洋与大气学院 讲师

2000/01-2004/12 中国海洋大学 海洋与大气学院 副教授

2005/01-今 中国海洋大学 海洋与大气学院 教授

### 主要项目:

2002-2004, 主持科技部十五“863”项目“强流区星载散射计风场反演技术研究” (2003AA639380) 10万

2005-2007, 主持国家自然科学基金面上项目“非均匀流场调制海面高频雷达后向散射系数机制研究” (40476011), 34万

2009-2012, 参加国家自然科学基金重点项目“风浪对大气边界层的影响及其在海气交换中的作用” (40830959) ; 8万

2012-2016, 参加国家海洋局专项“波浪能重点开发利用区资源勘查和选划(OE -W01)”, 8万

### 代表文章:

**Zheng, G., H. Lu, and Y.,Pei, 2006, Laboratory observation of the modulation of microscale wind waves by mechanically generated long waves, *Proceeding of Third Chinese-German Joint Symposium on Coastal and Ocean Engineering*, Taiwan, Tainan, November, 8-26, 2006.**

**Zheng, G., P. Cong, and Y. Pei, 2006, On the improvements to the wave statistics of narrowbanded waves when applied to broadband waves, *J. Geophys. Res.*, 111, C11016, doi:10.1029/2005JC003106.**

**Zheng G. et al.,2004. A discrete correction scheme for envelope approach of wave group statistics. *Coastal Engineering*, 50:225-230.**

**Zheng G. et al., 2004. Probabilistic models for the probability of wave breaking and whitecap coverage based on kinematic breaking criterion.**

**China Ocean Engineering**, 18(3):357-370.

**Zheng G. et al.**, 2004, The difference between the joint probability distributions of apparent wave heights and periods and individual wave heights and periods. **Acta Oceanologica Sinica**, 23(3):399-406.

**科研奖励:**

徐德伦, 吕红民, 郑桂珍, 于定勇, 2002, 教育部中国高校自然科学奖一等奖, 成果名称: “风浪破碎研究”

郑桂珍, 1991, 中国科学院大恒光学奖。

**讲授课程:**

本科: 流体力学

**研究兴趣:**

海浪和小尺度海气相互作用

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### **Education**

09/1984-06/1988, B.S., in Physical Optics, Jilin University, China.

09/1988-06/1991, M.S., in Physical Optics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Science, China

09/2006-06/2009, Ph.D. in Physical Oceanography, Ocean University of China

### **EMPLOYMENT**

07/1991-06/1994, assistant, Qingdao University of Science & Technology

07/1994-04/1997, Lecture, Qingdao University of Science & Technology

05/1997-12/1999, Lecture, China ocean University

01/2000-12/2004, Associate Professor, China ocean University

01/2005-present, Professor, China ocean University

### **Major PROJECTS**

01/2002-12/2004, **MOSTproject** “study on the technique of Wind retrieval from Spaceborne Scatterometer above oceans with strong current.”100k, PI

01/2005-12/2007, **NSFC project** “Mechanism of the Modulation of Non-Uniform Current on Radar Backscatter from ocean Surface” (40476011), 340k, PI

01/2009-12/2012, **NSFC project** “Effect of Wind Waves on Atmospheric Boundary Layer and Its Role in air-sea interaction.” (40830959) , 80k,

Participant

01/2012-12/2016, **SOA project** “Exploration and Selection of the Key Zones of Wave Energy Resource Exploitation (OE -W01), 80k, Participant

## REFEREED PUBLICATIONS

**Zheng, G.**, H. Lu, and Y.,Pei, 2006, Laboratory observation of the modulation of microscale wind waves by mechanically generated long waves, **Proceeding of Third Chinese-German Joint Symposium on Coastal and Ocean Engineering**, Taiwan, Tainan, November, 8-26, 2006.

**Zheng, G.**, P. Cong, and Y. Pei, 2006, On the improvements to the wave statistics of narrowbanded waves when applied to broadbanded waves, **J. Geophys. Res.**, 111, C11016, doi:10.1029/2005JC003106.

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**Zheng G. et al.**, 2004, The difference between the joint probability distributions of apparent wave heights and periods and individual wave heights and periods. **Acta Oceanologica Sinica**, 23(3):399-406.

## Awards

Xu, D., H. Lu, **G. Zheng**, 2002: The Study on Wind Wave Breaking, **First prize of Natural Science Award of the Ministry of Education.**

**G. Zheng**, 1991: Daheng Prize on Optics, Chinese Academy of Science.

## Courses

Undergraduate: Fluid Mechanics

## Research Interests

Ocean surface waves.

Small-scale Air-Sea Interactions.

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