Meng Wang

Curriculum vitae

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-----OBJECTIVE-----

- Excellent academic background, abundant research experience
- Dynamic, cooperative and enthusiastic about campus and social activities.
- Immediate goal: Acceptance to a Ph. D. program to acquire the advanced knowledge and skill
- Career goal: To be hired for a tenured-track position as a professor.

-----PERSONAL INFORMATION-----

- Date of Birth: Oct 18th, 1992
- Gender: Female
- Nationality: China

-----EDUCATION-----

2011–Present University of Science and Technology of China (USTC)
B. S. in Optical Information Science and Technology (expected June, 2015)

-----RESEARCH INTERESTS-----

- Advanced materials
- Optical physics
- Quantum computation and quantum information

------HONORS-----

- 2011 Outstanding Student Scholarship in USTC (Grade 3)

-----PUBLICATION-----

Nov, 2014 Generation of cylindrically polarized vector vortex beams with digital micromirror device
Lei Gong, Yuxuan Ren, Weiwei Liu, **Meng Wang**, Mincheng Zhong, Ziqiang Wang, and Yinmei Li,
Journal of Applied Physics 116, 183105 (2014)

-----RESEARCH -----

- Oct. 2013-Dec. 2013 **Study on (R-NaYbF4:Tm3+)/CaF2 Core/Shell nanoparticles**

Department of Physics, USTC, with Prof.Zengming Zhang

• College Physics Experimentation IV Course Project, collaborated with members of various research areas and lead the group to finish our research

• Performed a series of experiments, including synthesizing (R-NaYbF4:Tm3+)/CaF2 Core/Shell nanoparticles,

performing X-Ray Diffraction (XRD), and electrical and magnetic characterization of the samples via Physical Property Measurement System (PPMS), Superconducting Quantum Interference Device (SQUID), and Vibrating Sample Magnetometer (VSM)

• Analyzed data using softwares Matlab and Origin, and wrote the Abstract and Instruction of our thesis

- Jul. 2013-May. 2014 **Generation of cylindrical vector beams with digital micromirror device**

Department of Optics and Optical Engineering, USTC, with Prof.Yinmei Li

• Our paper published in **Journal of Applied Physics**

• We have experimentally produced cylindrical vector-vortex modes with various profiles and topological charges through simultaneous encoding of the amplitude, phase, and polarization state of the optical field.

• Performed a series of experiments, taking the advantage of the **digital micromirror device (DMD)** to shape the incident Gaussian mode to various spatial modes.

- Jul. 2014-Aug. 2014 **Semiconductor quantum dots and superconducting cavity coupled quantum system research**

Key Lab of Quantum Information,CAS, with Prof.Tao Tu

• Learn more about quantum information and technology to widen my research areas

- Apr. 2014-Present **The back focal plane of the single molecular electroluminescent imaging studies**

National,Laboratory,Physical,Sciences,Microscale, with Prof.Zhenchao Dong

• Assisted in the construction of a **Scanning Tunneling Microscope (STM)** and confocal ultrafast optical system

• Performed experiments in back focal plane study, including seting up the optical system out of vacuum, adjusting it, data acquisition and analysis

• Planned to conduct experiments in vacuum in the following steps

• Broadened my research areas by attending the Surface Physics Group meeting

------EXPERIENCE-----

- Jul. 2014 Participated in the summer camp held by Tsinghua University
- May. 2014 Internship in Hefei Dooxue Network Information Co., Ltd. as a UI designer
- Oct. 2013 Visited and studied at Shanghai Institute of Applied Physics

------SKILLS-----

- Experimental facilities: Glove Box, XRD, PPMS, SQUID, VSM, STM, TEM
- Computer Language: C, HTML
- Softwares: Origin, Dreamweaver, LATEX, Matlab, CorelDRW

-----ACTIVITIES AND HOBBIES-----

- Activities: Volunteered in Hefei Special Education Center to help disabled children
  Set up a school band and acted as a vocal in it
  Became a manager of a men soccer team which is enrolled at school
- Hobbies: traveling, running, reading, learning foreign languages, watching movies, singing

Please visit my homepage for more detailed information.