# Sheng Peng

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| **Objective** | A challenging research position where I can use my knowledge, abilities and developed skills as an applied scientist or technician. |
| **Experience** | • **Research Assistant** **Jul 2000 ~ Present**<br>**Thomas Jefferson Lab** **Newport News, VA**<br>— Developed high power microwave and rf excimer lamps for material processing<br>— Characterized high density plasma<br>— Studied excimer systems with a molecular emission model<br>— Simulated the process of particle interactions in high density plasma<br>• **Teaching Assistant** **Aug 1999 ~ Aug 2000**<br>**College of William and Mary** **Williamsburg, VA**<br>— Directed and graded for Astronomy (1year, 2 sections) and General Physics (summer)<br>• **Research Assistant** **Aug 1997 ~ Jun 1998**<br>**Tsinghua University** **Beijing, China**<br>— Studied $Na_2$ Rydberg states and interatomic interactions with laser PFOODR spectroscopy |
| **Education** | • 2001 ~ Present College of William and Mary Williamsburg, VA<br>**Ph.D in Physics** (expected in 2003) GPA 3.87 (on a 4.0 scale)<br>• 1999 ~ 2000 College of William and Mary Williamsburg, VA<br>**Master in Physics** GPA 3.95 (on a 4.0 scale)<br>• 1994 ~ 1998 Tsinghua University Beijing, China<br>**Bachelor in Physics** |
| **Publication** | • Excimer Emission Spectra of KrI* and $I_2$* generated in a novel capacitively coupled 13.56 MHz rf lamp, (will submit to JAP)<br>• J XIANG, X DAI, S PENG, Spectroscopy and Spectral Analysis,1999; **19**, 1 |
| **Skills** | • Experienced in ultra high vacuum technique (UHV), surface technique, spectrometer design, data acquisition and chemical vapor deposition (CVD)<br>• Familiar with MS Windows, Unix (SGI)/Linux and many widely used programming languages, including C/C++, Perl, CGI, web programming tools, and MISP |