# Education

## Brown University, Providence, RI

Ph.D. Materials Science, GPA: 3.7/4.0 May 2013

M.S. Materials Science and Solid Mechanics GPA: 3.7/4.0 May 2010

Shanghai Jiao Tong University (SJTU), Shanghai, China

B.S. Materials Science and Engineering, GPA: 86.5/100, ranking: 5/117 June 2007

# Audited Courses

# Capital market, macroeconomics, investment I, II, accounting, corporate finance

# Working Experience

# Quadrant 4 consulting 2013 Dec-May 2015

* Gather business requirements and interacted with external users to prepare for relevant document.
* Prepared testing cases, testing plan and test data.
* Build testing script and execute test with automation testing tools such as QTP
* Log and manage defect in the software development life cycle..

# Research Experience

# **PhD Dissertation Research on assessing and understanding the deformation response of advanced aerospace materials for future aircraft engine applications, Brown University** 2008-May. 2013

* Set up mechanical testing equipments, designed and conducted monotonic tension, fatigue, creep, and cyclic creep experiments on pure Mo, Mo-27at%Re, and Mo-0.3at%Si as a function of temperature, strain rate, frequency and other loading variables.
* Acquired, analyzed and visualized experimental data with EXCEL, MATLAB and other software.
* Analyzed the microstructure, post-deformed substructures with characterization tools such as OPM, SEM, EBSD, XRD and TEM to understand the underlying deformation mechanism for advanced materials design.
* Presented at several international conference and published papers in top scientific journals of the field.

PhD internship Research, TU Darmstadt, Germany 2011 summer

* Synthesized Mo-0.6%Si-Ti (x) solid solution alloys through powder metallurgy and thermal mechanical processing.

Bachelor’s Thesis Research, SJTU, China 2005-2007

* Fabricated and characterized diamond thin film with MPCVD on porous carbon substrates.

# Publications and Presentations

* X. J. Yu, K. S. Kumar, “Uniaxial Cyclic Deformation Response of Recrystalized Molybdenum”, **Materials Science and Engineering A.** Vol 540. page. 187-197.
* X. J. Yu, K. S. Kumar, “Uniaxial Monotonic properties of Mo-27at%Re and Mo-0.3at%Si solid solutions” **Inter. Jour Refract. Hard Mater.,** Vol 41. 2013
* X. J. Yu, K. S. Kumar, ”Uniaxial Cyclic and cyclic creep properties of Mo-27at%Re and Mo-0.3at%Si solid solutions” (In preparation for **Acta Metall. Mater.**). 2012.
* “Deformation Behavior of Mo and Mo-Si-B Alloys”. Poster Exhibition at “Materials by Design”, a town meeting in support of the Materials Genome Initiative (MGI). Brown University. RI. 2012
* “Cyclic and Cyclic-Creep Behavior of Mo-27at%Re and Mo-0.3at%Si solid solutions”, TMS 142th Annual Meeting & Exhibition,. Orlando. FL 2012
* , “Deformation Response of Mo and Mo-Si-B Alloys”. **ONR Cellular and Propulsion Materials Program Review**. Charleston. SC. 2011
* “Cyclic deformation behavior of commercially pure Mo and a Mo-Si-B solid solution alloy”. **TMS 140th Annual Meeting & Exhibition,**. Seattle. WA. 2010.

# Leadership Experience

# Graduate Student Council (GSC), Engineering Representative, Brown University 2009-11

* Started and organized the monthly engineering graduate students social events.

**Extra Curricular**

* Invested a dozen of stocks across different sectors and countries from 2011 to 2014 with long only strategy, realized a 16% gain. Among the chosen securities, the best performer gained more than 100%