

Micheal Kattoura

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Personal Profile

I am currently pursuing graduate studies in the field of Design, Manufacturing and Materials. I am currently researching in the materials field in the topics “Modeling the Low Cycle Fatigue in Copper Single Crystal: Multiscale Dislocation Dynamics Simulations” and “Investigating the Strain Rate Effect on Copper Single Crystal under Monotonic and Shock Loading: Multiscale Dislocation Dynamics Simulations”. I have also studied/researched in the fields of fracture mechanics and Composite materials. I am competent in various computer programs including Mat-lab, C++, AutoCAD, Solid Work, ANSYS, Labview, Surfcam, Fluent, and Gambit.

Education

American University of Beirut (AUB) **Beirut, Lebanon**
Masters of Engineering in Mechanical Engineering 2011 – Present

- Pursuing graduate studies in Mechanical Engineering in the field of Design, Manufacturing and Materials (CAV 94.83/100 and GPA 4.0/4.0)

Notre Dame University - Louaize (NDU) **Zouk Mosbeh, Lebanon**
Bachelor in Mechanical Engineering 2007 – 2011

- Graduated top of Mechanical Engineering class with Highest Distinction (GPA 3.8/4.0)

Work Experiences

American University of Beirut (AUB) **Beirut, Lebanon**

Graduate/Teaching Assistant 2011 – Present

- Assisted Professors in a Mechanics of Materials, Mechanics of Machinery, Engineering Materials, Design 2, Micromechanics and Crystalline Plasticity courses with lectures and exams, and also corrected assignments and exams.
- Assisted Instructors in Manufacturing Shops, and Control Systems Laboratory with demonstrations and exams, corrected reports and exams.

Research Assistant 2012 – Present

- Assisted Professor Mu'tasem Shehadeh in research in the materials field in the topics “Modeling the Low Cycle Fatigue in Copper Single Crystal: Multiscale Dislocation Dynamics Simulations” and “Investigating the Strain Rate Effect on Copper Single

Crystal under Monotonic and Shock Loading: Multiscale Dislocation Dynamics Simulations”.

Khateb & Alami Engineering Consulting Company

Beirut, Lebanon

Site Mechanical Engineering Assistant

2010

- Participated in the supervision and consultant for mechanical duties for the construction of a luxury commercial building HOSN440.

Awards

Scholarships to attend MMM 2012 International Conference **2012**

Conference fees: Multiscale Materials Modelling (MMM 2012) Conference Secretariat
Part of trip Expenses: University Student Faculty Committee (USFC) at AUB

Highest Distinction with Summa cum Laude **2011**

Notre Dame University

Dean's Lists for Educational Excellence

2007-2011

Faculty of Engineering, Notre Dame University

Conference

- (1) Presented “Modeling the Low Cycle Fatigue in Copper Single Crystal: Multiscale Dislocation Dynamics Simulations” at international conference - 6th International Conference on Multiscale Materials Modelling (MMM 2012) in Singapore.

Publications

- (1) **Micheal A. Kattoura**, Mutasem Shehadeh, Modeling the Low Cycle Fatigue in Copper Single Crystal: Multiscale Dislocation Dynamics Simualtions. [*To be published in Multiscale Materials Modelling \(MMM 2012\) Symposium Proceedings/ MRS Online Proceedings Library. Cambridge University Press.*](#)
- (2) **Micheal A. Kattoura**, (2011) Solar Thermal Power Plant in Lebanon, [*Bachelor's Thesis at Notre Dame University.*](#) (143 pages, Bachelor's Work)