

# MAXIM STONOR

Apt. 6D 528 W Riverside Drive, New York, NY 10027

stonor.m@gmail.com | +1-(917)-803-5107

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## EDUCATION

**M.S./PhD in Chemical Engineering**, Columbia University, New York, NY *August 2012 – (August-December) 2016*

GPA: 3.80/4.00

### Thesis

Conversion of Biomass to CO<sub>x</sub> free H<sub>2</sub> through the catalyzed Alkaline Thermal Treatment Reaction

### Publications

Stonor, M. R., Ferguson, T. E., Chen, J.G., Park, A.H.A. (2015) “**Biomass conversion to H<sub>2</sub> with substantially suppressed CO<sub>2</sub> formation in the presence of Group I & Group II hydroxides and a Ni/ZrO<sub>2</sub> catalyst.**”

*Energy & Environ. Sci.*, 8, 1702-1706.

### Conferences

*AIChE 2014*

“Catalytic Enhancement of the Alkaline Thermal Treatment of Wet Biomass to Hydrogen in the Presence of Group I and II Hydroxides”, November 16<sup>th</sup> – 21<sup>st</sup> 2014, Atlanta, GA, **Presenter**

*ACEME 2015*

“In-Situ Carbon Fixation during Hydrogen Production via the Alkaline Thermal Treatment of Biomass Using Group I and Group II Hydroxides”, June 21<sup>st</sup> – June 24<sup>th</sup> 2015, New York, NY, **Presenter**

*GLS 2015*

“Catalytic Enhancement of the Alkaline Thermal Treatment of Wet Biomass to Hydrogen in the Presence of Group I and Group II Hydroxides”, June 28<sup>th</sup> – July 1<sup>st</sup> 2015, New York, NY, **Presenter**

*AIChE 2015*

“Catalytic Enhancement of the Alkaline Thermal Treatment of Cellulose to H<sub>2</sub> in the Presence of Ca(OH)<sub>2</sub> and Low-Loading Catalysts”, November 8<sup>th</sup> – November 13<sup>th</sup> 2015, Salt Lake City, NY, **Presenter**

**B.Eng. in Chemical Engineering**, Loughborough University, United Kingdom

*September 2008 - May 2011*

*1<sup>st</sup> Class Honors*

### Awards

ExxonMobil Petroleum Prize – Highest academic average in my final year – 2011

BP Prize – Amongst the top 15 students in my first year – 2009

R&D Prize – Highest mark in the Research & Design module in my final year – 2011

Jack Harris Prize – Highest academic average in my penultimate year – 2010

## WORK EXPERIENCE

### Teaching Assistant

*August 2012 – May 2013*

*Department of Chemical Engineering, Columbia University*

New York, NY

- Responsible for lecturing and tutoring undergraduates in the Separations and Thermodynamics classes.

### Research Intern

*August 2011 January 2012*

*Schlumberger Corporation*

Houston, Texas

- Investigated the fluid dynamics and material properties of novel fluids as high viscosity materials for use as sealants in well-bores
- Developed the operational procedure for the scale-up and application of the technology

### Research Assistant

*June 2010 – July 2010*

*Schlumberger Corporation*

Cambridge, UK

- Determined the chemical composition of a plastic used in streamers for geographic mapping of ocean floors
- Discovered the key plasticizer compound required for plastic durability

## **SKILLS**

Languages: Bilingual English and French

Software: AutoCAD, UniSim, COMSOL, Prism, Matlab, Microsoft Office

Laboratory: GCMS, IC, TGA, ICP, PSD, TEM, EXAFS, XRD, TOC/TIC, BET, UV, IR, DSC