

## **Sindy Tarazona-Cardenas**

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### **Education:**

M.S. on Mechanical Engineering, University of Guanajuato, Mexico; 2015-Present.

B.S. on Chemical Engineering, Industrial University of Santander, Colombia; 2007-2013.

“Optimization of Production Process of Bio Oil from Empty Fruit Bunches of Oil Palm by Intermediate Pyrolysis”.

### **Languages:**

Spanish: Mother Tongue. English: TOEFL IPT score 500, 16<sup>th</sup> February 2016.

### **Coursework:**

Thermodynamics, Advanced Heat Transfer, Renewable Energy, Fluid Dynamics, Engineering Analysis, Energetic Systems Analysis and Simulation, Kinetics, Design of Experiments.

### **Technical Skills:**

MATLAB, Fluent, ICEM, Language CNC, Master Cam, LaTeX, Solidworks, Image Processing, Tec Plot.

### **Professional membership:**

American Society of Mechanical Engineering (ASME) member since 2015.

### **Professional Interests:**

Optimization of processes, thermal management, sustainable energy and power generation.

### **Publications (International and National Journals, International Conferences):**

- Fernando Cano-Banda, C. Ulises Gonzalez-Valle, **Sindy Tarazona-Cardenas**, Abel Hernandez-Guerrero. “Effect of Different Geometry Flow Pattern on Heat Sink Performance”. 12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics HEFAT 2016. Costa de Sol, Spain. pp. 419-424.
- J. Luis Luviano-Ortiz, C. Ulises Gonzalez-Valle, Guillermo Hernandez-Cruz, Eduardo Ramos, Abel Hernandez-Guerrero, **Sindy Tarazona-Cardenas**. “Visualization of the Flow Distribution inside the Piston Displacement of a Gamma-Type Stirling Engine”. 12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics HEFAT 2016. Costa de Sol, Spain. pp. 999-1004.
- Sebastián Vecino Mantilla, Paola Gauthier-Maradei, Pedro Álvarez Gil, **Sindy Tarazona Cárdenas**. “Comparative study of bio-oil production from sugarcane bagasse and palm empty fruit bunch: Yield optimization and bio-oil characterization”. Journal of Analytical and Applied Pyrolysis 108 (2014) 284–294.