

## DÉBORA R. BARCELLOS DE OLIVEIRA

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### EDUCATION

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| <b>Colorado School of Mines, Golden, CO USA</b>           | PhD July 2018      |
| Materials Science, Ceramics and Renewable Energy emphasis | 3.80/4 GPA         |
| <b>Faculdades Oswaldo Cruz, São Paulo, SP Brazil</b>      | B.E. December 2011 |
| Chemical Engineering                                      | 9.45/10            |

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### RELEVANT EXPERIENCE

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| <b>Colorado School of Mines, Materials and Metallurgical Engineering Department</b>  | August 2014 – Present |
| Research Assistant for Thermal Analysis Laboratory   |                       |
| <ul style="list-style-type: none"><li>Trained lab users in experiment setup and data analysis, as well as assisted in daily operations</li></ul>     |                       |
| Teaching Assistant for Materials Kinetics  |                       |
| Teaching Assistant for Electronic Properties of Materials  |                       |
| <b>Sandia National Laboratory, Livermore, CA</b>   | Summer 2015           |
| Lab Intern: Samples testing for Solar Thermochemical Hydrogen Production Project   |                       |
| <ul style="list-style-type: none"><li>Stagnation Flow Reactor calibration, hydrogen production experiment and data analysis</li></ul>                |                       |
| <b>BASF, Paints and Coatings Division, São Bernardo do Campo, Brazil</b>   | 2010 – 2011           |
| Research and Development Lab Intern  |                       |
| <ul style="list-style-type: none"><li>Design of new water-based and solvent-based coatings and paints for automotive and architectural use</li></ul> |                       |
| Process Engineering Intern   |                       |
| <ul style="list-style-type: none"><li>Plant routine follow-up, new filler implantation and machinery maintenance program coordinator</li></ul>       |                       |

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### PROJECT EXPERIENCE

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| <b>Colorado School of Mines Research Project: Solar Thermochemical Hydrogen Production</b>  |
| <ul style="list-style-type: none"><li>Science Without Borders scholarship</li><li>Synthesis and characterization and testing of perovskite oxides for high temperature solar water splitting</li><li>Project collaboration with Northwestern University, Stanford University and Sandia National Laboratory</li></ul> |

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### CONFERENCES

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| <b>20<sup>th</sup> International Conference on Solid State Ionics, Keystone, CO</b>  | June 2015 |
| <ul style="list-style-type: none"><li>Poster presentation “Investigation on Nonstoichiometric Perovskite Oxides of <math>Sr_{1-x}La_xMn_{1-y}Al_yO_{3-\delta}</math> for Solar Thermochemical Hydrogen Production”</li></ul> |           |

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### SKILLS

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- Chemical Characterization:** X-Ray Diffraction, X-Ray Fluorescence, Scanning Electron Microscopy, Field Emission Scanning Electron Microscopy, Energy Dispersive X-Ray Spectroscopy, Thermogravimetric Analysis, Differential Thermal Analysis, Differential Scanning Calorimetry, Dilatometry, Four-probe DC resistivity measurement.
  - Management:** Laboratory Research Assistant, Undergraduate Research Advising
  - International:** Brazilian Citizenship, J1 Visa; Bilingual: English/Portuguese; Intermediate level: German/Spanish
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### ACTIVITIES AND INTERESTS

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Hiking, biking, camping, piano playing, singing, reading, cooking.