**SONIA K. SANCHEZ LOHFF**

[www.linkedin.com/in/sanchez-lohff](http://www.linkedin.com/in/sanchez-lohff) | +1 713-304-4425 | [sosanchez10@gmail.com](mailto:sosanchez10@gmail.com)

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| **SUMMARY OF QUALIFICATIONS** |

* **Lab Experience:** Experience with sample preparation techniques using LA-ICP-MS, XRD, SEM, and optical microscopy.
* **Data Analysis:** Capable of organizing, processing, and interpreting large data sets. Proficient in signal processing techniques such as excel and Matlab.
* **Creative Strengths:** Excellent at creating 2D and 3D figures to depict data effectively. Proficient in ArcGIS, Adobe Illustrator, and Photoshop.
* **Languages:** Bilingual in English (native) and Spanish (fluent).

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| **EDUCATION** |

**M.S. Geology** (in progress),University of Cincinnati, GPA:3.97/4.00 Summer 2018

* Masters Thesis: “Forearc basin analysis pinpointing upper plate response to subduction changes in southern Alaska”
* Short Courses: NMR Petrophysics—Basic Petrophysics, Introduction to Log Core Integration and Unconventional

Resources, FractureStudies LLC—Natural Fractures in Hydrocarbon Reservoirs (July 2016), Detrital Geo- and

Thermochronology Workshop

* Coursework: Sequence Stratigraphy, Modeling Landscapes, Thermochronometric Methods, Regional Tectonics,

Glacial Geology, Petroleum Field Camp (South Dakota School of Mines)

**B.S. Geology,** Appalachian State University, Departmental Honors, Cum Laude, GPA: 3.63/4.00 Fall 2014

* Minors: Fine Arts & Spanish
* Senior Honors Thesis: “Analysis of ENSO Signal Strength on Precipitation Statistics, NC”
* Relevant Coursework: Structural Geology and Tectonics, Introduction to Geophysics, Fundamentals of Mineralogy,

Petrology and Petrography, Stratigraphy and Sedimentology, Hydrology, Quantitative Data Analysis Earth

Environment, Field Camp (Cornell University & University of New Mexico)

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| **WORK EXPERIENCE** |

**Graduate Research Assistant:** University of Cincinnati 2015

Conducted and managed mineral separation & fission-track laboratory work

**Panama Canal Project Intern [PCP-PIRE]:** [Smithsonian Tropical Research Institute](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CB4QFjAAahUKEwjv-amx69fIAhUIz2MKHbFzAi8&url=http%3A%2F%2Fwww.stri.si.edu%2F&usg=AFQjCNFWEl0Eydf_hG26GitUZ9Wh3KxcQA&sig2=8L5cWh__zbtI5MdlXx1Ovw) 2015

Mapped Panama Canal sections, excavated fossils, initiated an outreach program with Geo Museum (BioMuseo)

**Geology Teaching Museum Assistant:** Appalachian State University 2014

Gave rock museum tours, tutored introductory geology students on walk-in basis, designed museum posters

**Geology Undergraduate Teachers Assistant:** Appalachian State University 2013-2014

Assisted in class lab sessions for Physical Geology, Historical Geology, and Hydrology

**Research Assistant:** Appalachian State University 2014

Processed and analyzed data for senior honors thesis using Matlab software sections

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| **HONORS AND AWARDS** |

**GSA Graduate Student Research Grant:** Geological Society of America 2017

**Graduate Assistantship:** University of Cincinnati 2015

**Academic Achievement Award:** Appalachian State University 2014

Awarded to graduating geology senior with highest GPA amongst peers in science and mathematics courses

**SoCon Commissioner’s Medal:** National Collegiate Athletic Association 2010-2014

Awarded for maintaining an ≥3.5 GPA while playing varsity sport

**Appalachian State Athletic Scholarship:** Appalachian D1 Women’s Soccer Team  2010-2014

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| **TECHNICAL SKILLS** |

**Petrel**∙ **Microsoft Excel**∙ **Matlab** ∙ **ArcGIS** ∙ **Adobe Illustrator** & **Photoshop** ∙ **Adobe Lightroom** ∙ **Optical Microscopy** ∙  **Scanning Electron Microscopy** (FEI Quanta 200 Environmental SEM)∙ **X-ray Diffraction** (Shimadzu 600 XRD)∙ **Cathodoluminescence Microscopy** (Relion) ∙ **Jaw Crusher** ∙ **Magnetic Separator** ∙ **LST Heavy Liquid**