

Curriculum Vitae
Angelina Leonardi

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EDUCATION

2016-2020 Skidmore College, Saratoga Springs, NY
BA: Chemistry (French minor)
GPA: 3.759
Honors: *magna cum laude*; Dean's List (seven semesters);
Pi Delta Phi, National French Honors Society

RELEVANT EXPERIENCE

2020-present **Atmospheric Chemistry Professional Research Assistant** – Dr. Troy Thornberry
CIRES/NOAA Chemical Sciences Laboratory 6, Boulder, CO

2017-2020 **Research Assistant** – Chemistry Department; PI: Dr. Juan G. Navea

2019-2020 **Research Laboratory Manager** – Chemistry Department; PI: Dr. Juan G. Navea

2018-2020 **Laboratory Teaching Assistant** – Chemistry Department; Dr. K. Aurelia Ball and
Dr. Juan G. Navea
Skidmore College, Saratoga Springs, NY

2015-2017 **Online Research Assistant** – David Leonardi, MD
Leonardi Institute, Lakewood, CO

PEER-REVIEWED PUBLICATIONS

1. Bennett-Caso, C.; **Leonardi, A.**; Alija, O.; Freeman-Gallant, G.; Cang, C.; Spagnoletti, J.; Navea, J.G. Multidimensional spectroscopic study of the oxidation of organic coatings with O(³P). *J. Phys. Chem. A*. 2021. *In preparation*.
2. Ricker, H.M.[†]; **Leonardi, A.**[†]; Navea, J.G. Photosensitization of NO₂ as a source of HONO, ClNO, N₂O, and NO_x. *ACS Earth Space Chem.* 2020. *In preparation*. [†]Authors contributed equally to the work.
3. **Leonardi, A.**; Ricker, H.M.; Gale, A.G.; Ball, B.T.; Odbadrakh, T.T.; Shields, G.; Navea, J.G. Particle formation and surface processes on atmospheric aerosols: a review of applied quantum chemical calculations. *Int. J. Quant. Chem.* 2020, e26350.
4. Kim, D.; Xiao, Y.; Karchere-Sun, R.; Richmond, E.; Ricker, H.M.; **Leonardi, A.**; Navea, J.G. Atmospheric processing of anthropogenic combustion particles: Iron mobility and nitrite formation from fly ash. *ACS Earth Space Chem.* 2020, 4, 750-761. (Featured as a Supplementary Cover article).
5. Vilchis, C. A.; Roldán, M.; **Leonardi, A.**; Navea, J.G.; Padilla-Benavides, T.; Shoshani, L. Ouabain enhances cell-cell adhesion mediated by β1 subunits of the Na⁺,K⁺-ATPase in CHO fibroblasts. *Int. J. Molec. Sci.* 2019, 20, 2111.

COLLOQUIA, CONFERENCE PRESENTATIONS & ABSTRACTS

1. “The mitochondrial Cu-transporter PiC2 contributes to skeletal muscle growth and differentiation.” Nshanji, Y.; **Leonardi, A.**; Cobine, P.; Navea, J.G.; Padilla-Benavides, T.

- American Society for Biochemistry and Molecular Biology Annual Meeting; 2021 Apr 27-30; virtual.
2. “Copper and MTF1: New roles for a classic metal sensing transcription factor in myogenesis.” **Leonardi, A.**; Tavera-Montañez, C.; Xiao, Y.; Gordon, S.J.V.; Navea, J.G.; Padilla-Benavides, T. American Chemical Society Northeast Regional Meeting; 2019 Jun 23-26; Saratoga Springs, NY (poster).
 3. “Vibrational spectroscopy study of O(³P) reactions with adsorbed organic compounds.” Bennett-Caso, C.; Cang, C.; **Leonardi, A.**; Spagnoletti, J.; Navea, J. G. Abstract to papers, 257th ACS National Meeting & Exposition; 2019 Mar 31-Apr 4; Orlando, FL.
 4. “Heterogeneous photochemistry on tropospheric aerosols as an alternative pathway for HONO and NO_x formation.” **Leonardi, A.**; Karchere-Sun, R.; Kim, D.; Navea, J.G. Joint 14th International Commission on Atmospheric Chemistry and Global Pollution Quadrennial Symposium/15th International Global Atmospheric Chemistry Science Conference; 2018 Sep 25-29; Takamatsu, Kagawa, Japan (poster).

Undergraduate conferences

1. “Effects of pH on photosensitization of atmospheric NO₂ by sea spray aerosols.” **Leonardi, A.**; Ricker, H.M.; Navea, J.G. Skidmore College End-of-semester Celebration; 2019 Dec 12; Saratoga Springs, NY (poster) *Internal academic presentation.*
2. “Effects of pH on photosensitization of atmospheric NO₂ by sea spray aerosols.” **Leonardi, A.**; Ricker, H.M.; Navea, J.G. New York Six Liberal Arts Consortium; 2019 Oct 26; Schenectady, NY (poster).
3. “Photosensitization of atmospheric NO₂ by sea spray aerosols.” Ricker, H.M.; **Leonardi, A.**; Navea, J.G. Skidmore College Faculty Student Final Summer Research Presentations; 2019 Aug 1; Saratoga Springs, NY (poster). *Internal academic presentation.*
4. “Quantum chemical calculations combined with vibrational spectroscopy to investigate reactions of organic coatings with O(³P).” Spagnoletti, J.; **Leonardi, A.**; Cang, C.; Navea, J.G. 17th Annual Mercury Conference on Undergraduate Computational Chemistry; 2018 Jul 19-21; Greenville, SC (poster).
5. “Photosensitization of atmospheric NO₃⁻ and NO₂ by components of sea spray aerosols.” **Leonardi, A.**; Ricker, H.M.; Navea, J.G. Skidmore College Academic Festival; 2019 May 1; Saratoga Springs, NY (poster). *Internal academic presentation.*
6. “Daytime chemistry of sea spray aerosols.” **Leonardi, A.**; Freeman-Gallant, G.; Navea, J.G. Skidmore College Faculty Student Final Summer Research Presentations; 2018 Aug 2; Saratoga Springs, NY (poster). *Internal academic presentation.*

AWARDS

2020	American Chemical Society Undergraduate Award in Physical Chemistry
2018	Schupf Scholarship for scientific research

PROFESSIONAL AFFILIATIONS

American Chemical Society

Royal Society of Chemistry

Center for Aerosol Impacts on the Chemistry of the Environment (CAICE)

LANGUAGES

English (first language)

French (fluent)

SCIENTIFIC INSTRUMENTATION AND MACHINERY

Atomic absorption spectroscopy (flame and furnace)
Infrared spectroscopy (solid, condensed, long-path gas, and plasma phase)
Nuclear magnetic resonance spectroscopy
UV-visible spectroscopy
Reflectance testing
Fluorescence spectroscopy
Gas chromatography/mass spectrometry
High performance liquid chromatography
Liquid chromatography/mass spectrometry
Microwave digestion
X-ray diffraction
X-ray fluorescence
Ozone generation
High power vacuum

CERTIFICATIONS

2017 Yoga instructor (200-hour training)
2017 Aquatic Wild workshop leader

REFERENCES

Dr. Juan G. Navea (PI, chemistry research; supervisor, laboratory TA)
(518) 580-8126
jnavea@skidmore.edu

Dr. K. Aurelia Ball (supervisor, laboratory TA)
(518) 580-8191
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Lisa M. Quimby (supervisor, research instrumentation)
(518) 580-5129
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Dr. Raymond J. Giguere (professor, Chemistry)
(518) 580-5125
rgiguere@skidmore.edu

Professor Timothy Freiermuth (advisor, French)
(518) 580-5209
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