



Lucia-Timea DEACONU



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Programming skills

Fortran ●●●○○

Script shell ●●●○○

Professional skills

- Handling large datasets and statistical analysis
- Active and passive satellite data retrievals
- Retrievals of aerosol and cloud properties
- Radiative transfer calculations using models

Others

- Fast learner
- Sociable
- Honest
- Perseverant
- Optimist
- Communicative
- Meeting deadlines
- Critical and creative thinking

Language

English ●●●○○

French ●●●○○

Hobbies



Professional summary

Ph.D degree in atmospheric physics, lasers and optics. Experience in active and passive satellite retrievals of aerosol above clouds properties and on the radiative impact of biomass-burning aerosols on stratocumulus clouds over the South Atlantic Ocean.

Education

Ph.D degree in Atmospheric Physics: 2014 – 2017

Laboratoire d'Optique Atmospherique (LOA) at Lille 1 University, Villeneuve d'Ascq, Hauts-de-France, France

- Study of aerosol above cloud (AAC) properties retrieved using satellite remote sensing technics, from passive (POLDER) and active (CALIOP) instruments;
- Study of aerosol-cloud interaction (semi-direct effect) in case of aerosols located above stratocumulus clouds;
- Visible and infrared radiative impact calculations using radiative transfer model;
- Study of the effect of aerosols and meteorological conditions on the cloud processes.

M.Sc degree: Risk assessment and environmental security: 2012 – 2014

Faculty of Environmental science and engineering at Babes-Bolyai University, Cluj-Napoca, Romania

B.Sc degree: Environmental engineering: 2008 – 2012

Faculty of Environmental science and engineering at Babes-Bolyai University, Cluj-Napoca, Romania

Work experience

Internship: 2012 - 2014

Research Centre For Disaster Management (RCDM) and Romanian Atmospheric research 3D Observatory (RADO) at Babes-Bolyai University, Cluj-Napoca, Romania

Prizes

Best poster: Deaconu L., Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Peers, F., Ducos F., Thieuleux F., *Comparison of active and passive A-Train sensors used in aerosols above clouds retrievals and characterization*, ICAC Conference, 23-27 March 2017, Villeneuve d'Ascq, France;

Publications

- **Deaconu, L. T.**, Waquet, F., Josset, D., Ferlay, N., Peers, F., Thieuleux, F., Ducos, F., Pascal, N., Tanré, D., Pelon, J., and Goloub, P.: *Consistency of aerosols above clouds characterization from A-Train active and passive measurements*, Atmos. Meas. Tech., 10, 3499-3523, <https://doi.org/10.5194/amt-10-3499-2017>, 2017.
- Cornet, C., C-Labonnote, L., Szczap, F., **Deaconu, L.**, Waquet, F., Parol, F., Vanbauce, C., Thieuleux, F., and Riédi, J.: *Cloud heterogeneity effects on cloud and aerosol above cloud properties retrieved from simulated total and polarized reflectances*, Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2017-413>, in review, 2017.
- **Deaconu L.**, Ferlay N., Waquet F., Thieuleux F., Peers F., Goloub P.: *Synergy POLDER-CALIOP for the study of aerosol-above-cloud properties and their radiative impacts off the coast of Angola*, in preparation.
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Peers, F., Ducos F., Thieuleux F., Tanré D., Pelon J., Goloub P.: *Consistency of aerosols above clouds characterization from active and passive A-Train sensors*, A-Train Symposium, 18-23 April 2017, Pasadena, California.
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Peers, F., Ducos F., Thieuleux F.: *Optical depth retrieval for aerosol over cloud: passive vs. active methods and applications for the study of aerosol-cloud interactions*, IRePSE Conference, 11 July 2016, Villeneuve d'Ascq, France;
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Ducos F., Thieuleux F.: *Optical depth retrieval for aerosol over cloud: passive vs. active methods and applications for the study of aerosol-cloud interactions*, 11th International Conference ELSEDDIMA "Environmental Legislation, Safety Engineering And Disaster Management", 28 May 2016, Cluj-Napoca, Romania;

Conferences

❖ Oral presentations

❖ Posters

- Waquet F., Peers F., **Deaconu L.**, Cornet C., Ducos F., Thieuleux F., Goloub P., Riedi J., Labonnote L., Tanré D., ICARE: Detection of aerosols in cloudy scenes: properties and climate impact, PNTS 2013-10, Novembre 2016.
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Peers, F., Ducos F., Thieuleux F., *Comparison of active and passive A-Train sensors used in aerosols above clouds retrievals and characterization*, ICAC Conference, 23-27 March 2017, Villeneuve d'Ascq, France;
- Cornet C., F. Szczap, L. C-Labonnote F. Waquet, **L. Deaconu**, F. Parol, J. Riédi, F. Thieuleux: *Assessments of Cloud Heterogeneity Effects on the POLDER3/PARASOL retrieved cloud parameters*, JpGU-AGU joint meeting, Montréal, 20-25 mai 2017;
- Cornet C. L. C-Labonnote, F. Szczap, F. Waquet, **L. Deaconu**, F. Parol, J. Riédi, F. Thieuleux: *Cloud Heterogeneity Effects on the POLDER3/PARASOL measurements and consequences on the cloud parameters and aerosol above cloud retrievals*, A-Train Meeting, Pasadena, 19-21 avril 2017;
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Ducos F., Thieuleux F.: *Optical depth retrieval for aerosol over cloud: passive vs. active methods and applications for the study of aerosol-cloud interactions*, 3eme Journée Scientifique Labex CaPPA, 25 February 2016, Villeneuve d'Ascq, France;
- **Deaconu L.**, Waquet F., Josset D., Ferlay N., Pascal N., Goloub P., Ducos F., Thieuleux F., *Optical depth retrieval for aerosol over cloud: passive vs. active methods and applications for the study of aerosol-cloud interactions*, 3eme Journée Scientifique Labex CaPPA, 25 February 2016, Villeneuve d'Ascq, France;
- **Deaconu L.**, Waquet F., Ferlay N., Goloub P., Josset D., *Study on indirect and semi-direct effect of aerosols on clouds*, IRePSE Conference, 8 July 2015, Villeneuve d'Ascq, France;
- **Deaconu L.**, Waquet F., Ferlay N., Goloub P., Josset D., *Study on 'multi-layer' situations and on aerosol-cloud interactions*, 2eme Journée Scientifique Labex CaPPA, 17 February 2015, Villeneuve d'Ascq, France;
- Peers F., Waquet F., **Deaconu L.**, Dubuisson P., Ducos F., Goloub P., Josset D., Labonnote L, Riédi J., Tanré D., Thieuleux F.: *Properties and Impact of Aerosols Above Clouds*, American Geophysical Union (AGU) Conference, San Francisco, California 9-13 December 2013.