Riinu Ots Curriculum Vitae June 2018

PERSONAL DETAILS

Email R.Ots@ed.ac.uk
Website https://riinu.me/

Presentations https://speakerdeck.com/riinuots/
GitHub https://github.com/riinuots/

EDUCATION

PhD Environmental Chemistry

2012 - 2016

University of Edinburgh

Thesis: "High resolution modelling of particulate matter air quality over the UK" Supervisors: Dr. Mathew R. Heal, Dr. Massimo Vieno, Dr. Stefan Reis

BSc Physics (First class equivalent)

2009 - 2012

University of Tartu

WORK AND TEACHING EXPERIENCE

Data Manager	2016 - current
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Clinical Surgery, Deanery of Health Sciences, University of Edinburgh

Demonstrator and tutor 2013 - 2016

School of Geosciences, University of Edinburgh

Specialist in numerical modelling (Part-time: 0.1) 2012 - 2015

Laboratory of Atmospheric Physics, University of Tartu

Lab assistant in numerical modellin (Part-time: 0.4) 2012 - 2015

 $Laboratory\ of\ Atmospheric\ Physics,\ University\ of\ Tartu$

Intern in air quality modelling Aug-Oct 2011

NERC Centre for Ecology&Hydrology, Edinburgh

Field Biologist Jun-Aug 2010

Estonian Fund for Nature, Estonia

GRANTS AND AWARDS

Principal's Teaching Award Scheme

2017

University of Edinburgh: For further development of www.shinystats.org £5.000

Estonian Students Fund in USA

2014

PhD travel bursary \$3,000

Estonian Students Fund in USA

2012

PhD travel bursary \$2,000

PhD stipend

2012-2016

NERC-CEH fully funded studentship £60,000

III award - Young researchers

2012

32nd NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application, Work: "Scale-dependent and seasonal performance of SILAM model in Estonia"

\$350

II award in Environmental Sciences

2009

Intel International Science and Engineering Fair, Work: "Implementation of Thermal Plume Rise in SILAM Atmospheric Dispersion Model":
\$1.500

The award included the naming of an asteroid after me: 25616_Riinuots.

REVIEWING

Peer-review

Grant proposals: Cancer Innovation Challenge

2017- ...

Organiser: The Data Lab

Peer-review

Journal: Palgrave Communications

2016

Journal: Environmental Pollution

Students' Research Projects Competition

2010

Organiser: Estonian Research Council

2012 - 2014

PRESENTATIONS AT INTERNATIONAL CONFERENCES

Plenary presentation

 $\begin{array}{c} 2017 \\ \text{New York, US} \end{array}$

"Reporting Apps"

REDCapCon - Research Electronic Data Capture conference

Poster presentation

2017 Helsinki, Finland

"ShinyStats: A new, interactive and engaging way to tutor trainee surgeons in statistics"

Association for Medical Education in Europe (AMEE) conference

Demonstration

2017 Manchester, UK

"HealthyR: R for healthcare data analysis"
Informatics for Health

Oral presentation

2015 Montpellier, France

"Model-measurement comparisons of speciated primary and secondary organic aerosol in London"

34th International Technical Meeting on Air Pollution Modelling and its Application

Poster presentation

2013 Miami, US

"Modelling Past and Future Changes in Secondary Inorganic Aerosol Concentrations in the UK."

 $33 \mathrm{rd}$ NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application

Poster presentation

2012 Utrecht, Netherlands

"Scale-Dependent and Seasonal Performance of SILAM Model in Estonia"

32nd NATO/SPS International Technical Meeting on Air Pollution Modelling and its
Application

Oral presentation

2011 Kos, Greece

"Atmospheric transport model applied to understand the effect of biogenic emissions to secondary atmospheric aerosol in hemiboreal zone."

11th conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Kos, Greece

Poster presentation

2010 Turin, Italy

"A Wintertime Local-to-Regional Scale Test Case Study of SILAM Model"

31st NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application

Riinu Ots

Publications May 2018

JOURNAL PAPERS

- Ots R., Heal, M. R., Young, D. E., Williams, L. R., Allan, J. D., Nemitz, E., Di Marco, C., Detournay, A., Xu, L., Ng, N. L., Coe, H., Herndon, S. C., Mackenzie, I. A., Green, D. C., Kuenen, J. J. P., Reis, S., and Vieno, M.: Modelling carbonaceous aerosol from residential solid fuel burning with different assumptions for emissions, *Atmospheric Chemistry and Physics*, doi:10.5194/acp-2017-568, 18: 4497-4518, 2018.
- GlobalSurg Collaborative: Surgical site infection after gastrointestinal surgery in high-income, middle-income, and low-income countries: a prospective, international, multicentre cohort study, *The Lancet Infectious Diseases*, doi:10.1016/S1473-3099(18)30101-4, 18: 516–525, 2018.
- McLean, K. A., Camilleri-Brennan, J., Knight, S. R., Drake, T. M., **Ots R.**, Shaw, C. A., Wigmore, S. J. and Harrison, E. M.: Decision modeling in donation after circulatory death liver transplantation., *Liver Transplantation*, 23: 594–603 doi:10.1002/lt.24715, 2017.
- Ots R., Vieno, M., Allan, J. D., Reis, S., Nemitz, E., Young, D. E., Coe, H., Di Marco, C., Detournay, A., Mackenzie, I. A., Green, D. C., and Heal, M. R.: Model simulations of cooking organic aerosol (COA) over the UK using estimates of emissions based on measurements at two sites in London, *Atmospheric Chemistry and Physics*, 16: 13 773–13 789, doi:10.5194/acp-16-13773-2016, 2016.
- Ots R., Young, D. E., Vieno, M., Xu, L., Dunmore, R. E., Allan, J. D., Coe, H., Williams, L. R., Herndon, S. C., Ng, N. L., Hamilton, J. F., Bergström, R., Di Marco, C., Nemitz, E., Mackenzie, I. A., Kuenen, J. J. P., Green, D. C., Reis, S., and Heal, M. R.: Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for London (ClearfLo) campaign, Atmos. Chem. Phys., 16: 6453–6473, doi:10.5194/acp-16-6453-2016, 2016.
- V. Toll, K. Reis, **Ots R.**, M. Kaasik, A. Männik, M. Prank, and M. Sofiev. SILAM and MACC reanalysis aerosol data used for simulating the aerosol direct radiative effect with the NWP model HARMONIE for summer 2010 wildfire case in Russia. *Atmospheric Environment*, 121: 75–85, doi:10.1016/j.atmosenv.2015.06.007, 2015.
- M. Vieno, M. R. Heal, M. Twigg, I. A. Mackenzie, C. F. Braban, J. Lingard, S. Ritchie, R. Beck, A. Móring, **Ots R.**, C. Di Marco, E. Nemitz, M. Sutton, and S. Reis. The UK particulate matter air pollution episode of March–April 2014: more than Saharan dust. *Environmental Research Letters*, 11(4): 44004, doi:10.1088/1748-9326/11/4/044004, 2015.
- A. Loot, **Ots R.**, M. Kaasik, and H. Iher. Atmospheric transport model applied to understand the effect of biogenic emissions to secondary atmospheric aerosol in hemiboreal zone. *International Journal of Environment and Pollution*, 50(1-4): 342–350, doi:10.1504/IJEP.2012.051205, 2012.

- J. Pavlenkova, M. Kaasik, E.-S. Kerner, A. Loot, and Ots R.. The Impact of Meteorological Parameters on Sulphuric Air Pollution in Kohtla-Järve. Oil Shale, 28(2): 337–352, doi:10.3176/oil.2011.2.07, 2011.
- M. Kaasik, T. Ploompuu, **Ots R.**, E. Meier, H. Ohvril, O. Okulov, H. Teral, L. Neiman, V. Russak, A. Kallis, and P. Post. Growth Acceleration of Pinus Sylvestris in Bog Stands Due to Intensified Nutrient Influx from the Atmosphere. *Oil Shale*, 25(1): 75–93, doi:10.3176/oil.2008.1.08, 2008.

CONFERENCE PROCEEDINGS

- R. Ots, A. Dore, Y. S. Tang, C. F. Braban, M. Vieno, and M. Sutton. Modelling Past and Future Changes in Secondary Inorganic Aerosol Concentrations in the UK. In D. G. Steyn and R. Mathur, editors, Air Pollution Modeling and its Application XXIII, Springer Proceedings in Complexity, pages 179–182. Springer International Publishing, doi:10.1007/978-3-319-04379-1.29, 2014.
- R. Ots, A. Loot, and M. Kaasik. Scale-Dependent and Seasonal Performance of SILAM Model in Estonia. In D. G. Steyn, P. J. H. Builtjes, and R. M. A. Timmermans, editors, *Air Pollution Modeling and its Application XXII*, NATO Science for Peace and Security Series C: Environmental Security, pages 593–597. Springer Netherlands, doi:10.1007/978-94-007-5577-2_100, 2013.
- R. Ots, A. Loot, and M. Kaasik. A Wintertime Local-to-Regional Scale Test Case Study of SILAM Model. In D. G. Steyn and S. T. Castelli, editors, Air Pollution Modeling and its Application XXI, NATO Science for Peace and Security Series C: Environmental Security, pages 539–542. Springer Netherlands, doi:10.1007/978-94-007-1359-8_90, 2011.