

# CURRICULUM VITAE

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**Name:** Isabel Lavrador Ribeiro

**Place and Date of Birth:** Lisbon, 18 May 1983

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## CAREER:

- 10/2018 – present: Researcher at the **Swedish Meteorological and Hydrological Institute (SMHI)**, research department; **air quality research unit**;
- 09/2017 – 09/2018: Postdoc researcher at the **Institute of Environmental Science and Technology, Autonomous University of Barcelona (ICTA-UAB)**, Spain. Research work focused on the impact of green infrastructures in urban areas. (Grant beneficiary of the “**Marie Skłodowska Curie Action**” of the European Commission).
- 1/2015 – 08/2017: Postdoc researcher at the **Rhenish Institute for Environmental Research (RIU)** at the University of Cologne (**Jülich Research Center – IEK 8**), Germany. Working on 4D-var data assimilation.
- 11/2008 – 2014: Researcher at the Group of Emissions, Modelling and Climate Change (GEMAC), in the Department of Environment and Planning of the **University of Aveiro**, Portugal.
- 11/2007 – 07/2008: Professional training as environmental consulting in Better Soluções, Lda.

## EDUCATION:

- 2010 – 2014: PhD Student, University of Aveiro. Title of thesis “The impact of biofuels for road traffic on air quality: a modelling approach.”
- 2007 – 2008: MSc. in Environmental Engineering, University of Aveiro, final grade 15/20. Title of thesis: Evaluation of air quality forecast in Portugal.
- 2002 – 2007: Degree in Environmental Engineering, Polytechnic Institute of Leiria – School of Technology and Management, final grade 14/20.

**PUBLICATIONS:** please see the list of publications on next page (citations in 175 documents | h index: 8)

- **Journals with referee (SCI):** 17
- **Conference proceedings:** 16
- **Book chapters:** 6
- **Books:** 2 (as editor)
- **Technical reports:** 14

## ADDITIONAL TRAINING

- 11-13/02/2019: SURFEX training course (in Meteo France)
- 2-6,16-20/03/2015: Remote sensing and Data assimilation workshop (in M.Sc. Physics of Earth and Atmosphere, Institut für Geophysik und Meteorologie, University of Cologne);
- 27-28/05/2012: Course “Theory and Practice of Multicriteria Analysis for Environmental Impact Assessment of Projects and Plans”. International Association for Impact Assessment (Porto, Portugal).
- 1-5/11/2011: “Joint NCAR-NCAS WRF course 2011 – workshop and tutorial (Edinburgh, UK).
- 19-23/09/2011: “Installation and operation of the EURAD-IM chemistry transport model” (Rhenish Institute for Environmental Research, University of Cologne, Germany).

- 05/2010 – 06/2010: Course of Pedagogical Training for trainers, 120h (Certificate n° EDF 548821/2010);

## RESEARCH & DEVELOPMENT ACTIVITIES:

### Research interests:

1. Atmospheric pollution;
2. Air quality modelling (regional and urban scales);
3. Urban climate;
4. Climate change;
5. Modelling assessment;
6. Combined used of monitoring and modelling.

### Projects:

1. GreenWave - Heat stress in Swedish cities and the role of urban nature (2019-2022) (FORMAS);
2. Hazard Support - developing a risk-based decision support for adaptation to future natural hazards (2015-2020) (MSB);
3. G.I.Nord – Green infrastructure and climate in Nordic cities, today and in the future: state-of-the-art and knowledge gaps on interactions and impacts (2018) (FORMAS);
4. P-Sphere project: beneficiary of a “Marie Sklodowska Curie Action” fellowship: Quantifying the impact of green infrascrutures on (peri-)urban atmospheres (GUrbs) (2017-2018)
5. The Helmholtz Climate Initiative REKLIM (<http://www.reklim.de/en.html>) (2015-2017)
6. CLICURB: Urban atmospheric quality, climate change and resilience (EXCL/AAG-MAA/0383/2012) (2013-2014);
7. BIOGAIR - Impacts of biomass to energy chain on air quality and Portuguese climatic policy (PTDC/AAC-AMB/103866/2008) (2009-2013);
8. ENSEMBLAIR – Improving air quality assessment with ensemble modelling (PTDC/AMB/69599/2006) (2008-2009).

### Protocols:

1. Maintenance and Improvement of air quality forecast system operation (protocol between University of Aveiro and Portuguese Environmental Agency) (2008-2014);
2. Improvement of the actual emissions inventory of North Region of Portugal (protocol between University of Aveiro and Regional Development and Coordinating Commission of the North) (2009);
3. Consulting and technical support to implementation of air quality improvement measures to North Region (protocol between University of Aveiro and Regional Development and Coordinating Commission of the North) (2008-2009);

### Integrated Actions:

1. Sweden-Brazil (2019-) - Infraestrutura verde em cidades tropicais para redução do stress térmico e adaptação às alterações climáticas – o exemplo de Fortaleza, Ceará
2. Portugal-Germany (2016-2017) – Simulation of Sahara dust event with regional CTM
3. Portugal-Spain (2010/2011) – air quality forecasting and management;
4. Portugal-Germany (2009/2010) – air quality numerical modelling (EURAD-IM);
5. Portugal-Brazil (2008/2009) – air quality management.

## PERSONAL AND TECHNICAL SKILLS:

**Mother language:** Portuguese      **Other languages:**

European level (*)	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced
Spanish Castilian	C1	Advanced	C1	Advanced	B2	Independent user	B2	Independent user	B2	Independent user
German	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User
Swedish	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(\*) Common European Framework of Reference (CEF) level

### Technical skills

Mesoscale and urban modelling: **WRF-ARW** (Weather Research & Forecasting model), **EURAD-IM** (EUropean Air Pollution Dispersion model – Inverse modelling); **WRF-urban** (WRF at high resolution with urban schemes BEP and BEP/BEM); Learning: **SURFEX** (Surface Externalisée) and **Harmonie-AROME** (Numeric Weather Prediction and Climate)

### Computer skills and competences

#### Programming language:

- Python
- Shell script
- NCO
- Fortran

#### Software and operative systems:

- Windows, iOS and UNIX
- LaTeX
- ArcGIS

### Social and organisational skills and competences

- Team spirit
- Systematic
- Result-oriented
- Analytical skills
- Accuracy
- Responsible
- Strong will to learn and seek new challenges
- Good communications skills
- Dynamism
- Skill to work under pressure
- Personal flexibility and ability to adapt to different environments

### Artistic skills and competences

- Photography  
(<http://www.flickr.com/photos/bexeniga>)

### Driver licence

- European driver licence category B

## PUBLICATIONS

### Journals with referee (SCI)

1. Gama, C., **Ribeiro, I.**, Lange, A.C., Vogel, A., Ascenso, A., Seixas, V., Elbern, H., Borrego, C., Friese, E., Monteiro, A., 2019. Performance assessment of CHIMERE and EURAD-IM' dust module. Atmos. Pollut. Res. <https://doi.org/10.1016/j.apr.2019.03.005>
2. Mok, K.M., Miranda, A.I., Yuen, K.V., Hoi, K.I., Monteiro, A., **Ribeiro, I.**, 2017. Selection of bias correction models for improving the daily PM10 forecasts of WRF-EURAD in Porto, Portugal. Atmos. Pollut. Res. 8. doi:10.1016/j.apr.2016.12.010.

3. **Ribeiro, I.**, Monteiro, A., Lopes, M., 2016. Potential effects of using biodiesel in road-traffic on air quality over the Porto urban area, Portugal. *Atmos. Environ.* 125, Part 78–91. doi:10.1016/j.atmosenv.2015.11.006.
  4. **Ribeiro, I.**, Monteiro, A., Martins, H., Freitas, S., Borrego, C., Lopes, M. (2015). How does the use of biodiesel affect urban air quality? *Int. J. Environment and Pollution*, 58,1/2, 79-88.
  5. Monteiro, A., Gama, C., Cândido, M., **Ribeiro, I.**, Carvalho, D., Lopes, M., 2015. Investigating ozone high levels and the role of sea breeze on its transport. *Atmos. Pollut. Res.* 7, 339–347. doi:10.1016/j.apr.2015.10.013.
  6. Monteiro, A., Ferreira, J., **Ribeiro, I.**, Fernandes, A.P., Martins, H., Gama, C., Miranda, A.I. (2015). Air quality over Portugal in 2020. *Atmospheric Pollution Research*, 6 (2015) 788-796. doi:10.5094/APR.2015.087
  7. Serrano, L., Lopes, M., Pires, N., **Ribeiro, I.**, Cascão, I., Tarelho, L., Monteiro, A., Nielsen, O., Gameiro da Silva, M., Borrego, C. (2015). Evaluation on effects of using low biodiesel blends in a EURO 5 passenger vehicle equipped with a common-rail diesel engine. *Applied Energy*, 146, 230–238. doi:10.1016/j.apenergy.2015.01.063.
  8. **Ribeiro, I.**, Monteiro, A., Fernandes, A.P., Monteiro, A.C., Lopes, M., Borrego, C., Miranda, A.I. (2014). Air quality modelling as a supplementary assessment method in the framework of the European air quality Directive. *Int. J.*, Vol. 54, No. 2/3/4, 2014.
  9. Borrego, C., Coutinho, M., Costa, A. M., Ginja, J., Ribeiro, C., Monteiro, A., **Ribeiro, I.**, Valente, J., Amorim, J.H., Martins, H., Lopes, D., Miranda, A. I. (2014). Challenges for a New Air Quality Directive: The role of monitoring and modelling techniques. *Urban Climate*. doi:10.1016/j.uclim.2014.06.007.
  10. Lopes M., Serrano L., **Ribeiro I.**, Cascão P., Pires N., Rafael S., Tarelho L., Monteiro A, Nunes T., Evtugina M., Nielsen O.J., Gameiro da Silva M., Miranda A.I., Borrego C. (2014) Emissions characterization from EURO 5 diesel/biodiesel passenger car operating under the new European driving cycle. *Atmospheric Environment*, 84, 339-348. <http://dx.doi.org/10.1016/j.atmosenv.2013.11.071>.
- (Ribeiro, I. is the correspondent author)**
11. Valente J., Amorim J.H., Teixeira R., Pimentel C., Ribeiro I., Borrego C. (2014) Children's exposure to traffic-related pollution: assessment of CO exposure in a typical school day. *International Journal Of Environment And Pollution*. 55, 1-4, 104-112.
  12. Monteiro, A., **Ribeiro, I.**, Tchepel, O., Carvalho, A., Martins, H., Sá, E., Ferreira, J., Galmarini, S., Miranda, A.I., Borrego, C. (2013). Ensemble techniques to improve air quality assessment: focus on O3 and PM. *Environmental Modelling & Assessment* 19 (3), 249-257. DOI:10.1007/s10666-012-9344-0.
  13. Monteiro, A., **Ribeiro, I.**, Tchepel, O., Sá, E., Ferreira, J., Carvalho, A., Martins, V., Strunk, A., Galmarini, S., Elbern H., Schaap, M., Builtjes, P., Miranda, A.I., Borrego, C. (2013). BIAS correction techniques to improve air quality ensemble predictions: focus on O3 and PM over Portugal. *Environmental Modeling & Assessment*. DOI 10.1007/s10666-013-9358-2.
  14. Monteiro, A., Carvalho, A., **Ribeiro, I.**, Scotto, M., Barbosa, S., Alonso, A., Baldasano, J.M., Pay, M.T., Miranda, A.I., Borrego, C. (2012). Trends in ozone concentrations in Iberian Peninsula by quantile regression and clustering. *Atmospheric Environment* 56 (2012) 184-193.
  15. Borrego, C., Monteiro, A., Pay, M.T., Ribeiro, I., Miranda, A.I., Basart, S., Baldasano, J.M. (2011). How bias-correction can improve air quality forecast over Portugal. *Atmospheric Environment* 45 (2011) 6629-6641.
  16. Carvalho, A., Monteiro, A., **Ribeiro, I.**, Tchepel, O., Miranda, A.I., Borrego, C., Saavedra, S., Souto, J.A., Casares, J.J. (2010). High ozone levels in northeast of Portugal: analysis and characterization. *Atmospheric Environment* 44 (2010) 1020 – 1031.
  17. Borrego, C., Monteiro, A., Ferreira, J., Moraes, M.R., Carvalho, A., **Ribeiro, I.**, Miranda, A.I., Moreira, D.M. (2009). Modelling the photochemical pollution over the metropolitan area of Porto Alegre, Brazil. *Atmospheric Environment* 44 (2010) 370 – 380.

#### **International conferences with referee**

1. **Ribeiro, I.**, Falls, M., Zonato, A., Villalba, G., Martilli, A. (2019). High resolved WRF-BEP/BEM simulation over Barcelona urban area with LCZ. 19<sup>th</sup> International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes 3-6 June 2019, Bruges, Belgium.

2. **Ribeiro, I.**, Paschalidi, Z., Elbern, H. (2016). Optimizing initial values and emission factors on mesoscale air quality modelling using 4D-var data assimilation. 17th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes 9-12 Mai 2016, Budapest, Hungary.
3. Mok, K.M., Hoi, K.I., Yuen, K.V., Miranda, A.I., Borrego, C., **Ribeiro, I.** (2015). Selection of a parsimonious empirical correction rule for a deterministic air quality model. 2015 ICEO&SI and ICLEI Resilience Forum, June 28-30, Koahsiung, Taiwan.
4. Miranda A.I., Monteiro, A., Martins, H., Ferreira, J., Gama, C., **Ribeiro, I.**, Borrego, C. (2014). The role of NH<sub>3</sub> on particulate matter pollution over Portugal. 16<sup>th</sup> International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes 8-11 September 2014, Varna, Bulgaria.
5. **Ribeiro, I.**, Monteiro, A., Martins, H., Miranda, A.I., Borrego, C., Lopes, M. (2014). How does the biodiesel use affect the urban air quality? 16<sup>th</sup> International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes 8-11 September 2014, Varna, Bulgaria.
6. **Ribeiro I.**, Martins A., Monteiro A., Lopes M., Miranda A.I., Borrego C. (2013). 6 years of biodiesel in Portugal: an environmental perspective. 1<sup>st</sup> International Congress on Bioenergy. 23-25 May 2013, Portalegre, Portugal.
7. **Ribeiro I.**, Monteiro A., Fernandes A.P., Monteiro A.C., Lopes M., Borrego C., Miranda A.I. (2013). Air quality modelling as a supplementary assessment method in the framework of the European air quality Directive. 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. 6-9 May 2013, Madrid, Spain.
8. Valente, J., Amorim, J.H., Teixeira, R., Pimentel, C., **Ribeiro, I.**, Borrego, C. Children exposure to traffic-related pollution: assessment of a typical schoolday. 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. 6-9 May 2013, Madrid, Spain.
9. **Ribeiro I.**, Cascão P., Monteiro A., Lopes M., Tavares R., Figueira de Sousa J., Miranda A. I., Borrego C. (2012). The impact of biodiesel on air pollutant emissions: Northern Portugal case study. 32nd Annual Meeting of the International Association for Impact Assessment - Energy Future The Role of Impact Assessment. 27 May- 1 June 2012, Porto, Portugal.
10. Tchepel, O., **Ribeiro, I.**, Monteiro, A., Carvalho, A., Sá, E., Ferreira, J., Miranda, A.I., Borrego, C. (2012). Improvement of ensemble technique using spectral analysis and decomposition of air pollution data. 32st NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application, 7-11 Maio de 2012, Utrecht, Holanda.
11. **Ribeiro I.**, Tavares A.M., Sá E., Lopes M. (2011) Impacts of Biofuels on Air Quality: Northern Portugal Case Study. International Conference on Climate Change and Global Warming 2011. 28-30 November 2011, Venice, Italy.
12. Lopes M., Monteiro A.C., **Ribeiro I.**, Sá E., Martins H., Coutinho M., Borrego C. (2011) Alterações Climáticas e a Gestão da Água em Portugal. XIV Encontro da Rede Luso-Brasileira de Estudos Ambientais. 12 a 16 de Setembro, Recife, Brasil.
13. Monteiro, A., **Ribeiro, I.**, Tchepel, O., Carvalho, A., Sá, E., Ferreira, J., Galmarini, S., Miranda, A.I., Borrego, C. (2011). Bias correction and ensemble techniques to improve air quality assessment: focus on O<sub>3</sub> and PM over Portugal. 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes.
14. Borrego, C., Monteiro, A., Pay, M.T., **Ribeiro, I.**, Miranda, A.I., Basart, S., Baldasano, J.M. (2011). How different air quality systems (should) operate over Portugal? 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes.
15. Borrego, C., Costa, A.M., Tavares, R., Lopes, M., Valente, J., Amorim, J.H., Miranda, A.I., **Ribeiro, I.**, Sá, E. (2009). Effects of road traffic scenarios on human exposure to air pollution. Air Pollution XVII conference, 20-22 July, Tallinn, Estonia. Eds: C.A Brebbia, V. Popov. WIT Transactions on Ecology and the Environment, vol 123 WIT Press, Southampton, UK. pp 89-100. doi: 10.2495/AIR090081.
16. Carvalho, A., Monteiro, A., **Ribeiro, I.**, Tchepel, O., Miranda, A.I., Borrego, C., Saavedra, S., Souto, J.A., Casares, J.J. (2009). High ozone levels in northeast of Portugal: analysis and characterization. American Geophysical Union – AGU (Poster).

## National conferences with referee

1. Borrego C., Pio C., Rocha A., Martins H., Freitas S., Amorim J.H., Miranda A.I., Dias D., Valente J., **Ribeiro I.**, Castanheira J.M., Sá E., Lopes M., Tchepel O., Gonçalves P., Marques C., Nunes T. (2013) CLICURB – Qualidade da atmosfera urbana, alterações climáticas e resiliência.. 10ª Conferência Nacional do Ambiente. Repensar o ambiente: Luxo ou inevitabilidade?. 6-8 nov, Aveiro, Portugal (POSTER).
2. Lopes M., **Ribeiro I.**, Sá E., Martins H., Rafael S., Monteiro A., Miranda A.I., Borrego C., Figueira de Sousa J. (2013) Biocombustíveis em Portugal: impacto na política climática e na qualidade do ar. 10ª Conferência Nacional do Ambiente. Repensar o ambiente: Luxo ou inevitabilidade?. 6-8 nov, Aveiro, Portugal.
3. Borrego C., Miranda A.I., Monteiro A., Martins H., Lopes M., Tchepel O., Carvalho A., Ferreira J., Amorim J.H., Valente J., Martins V., Dias D., **Ribeiro I.**, Sá E., Fernandes A.P., Pimentel C., Gama G., Rafael S., Relvas H., Silveira C., Freitas S. (2013) Ar de qualidade para uma saúde melhor. 10ª Conferência Nacional do Ambiente. Repensar o ambiente: Luxo ou inevitabilidade?. 6-8 nov, Aveiro, Portugal.
4. **Ribeiro I.**, Fernandes A.P, Monteiro A.C, Monteiro A., Lopes M., , Tchepel O., Borrego C. , Miranda A.I. (2013) Modelação da qualidade do ar como método suplementar de avaliação no âmbito da Directiva Europeia 2008/50/EC. 10ª Conferência Nacional do Ambiente. Repensar o ambiente: Luxo ou inevitabilidade?. 6-8 nov, Aveiro, Portugal.
5. Lopes M., **Ribeiro I.**, Monteiro A.C., Tarelho L., Cascão P., Monteiro A., Miranda A.I., Borrego C. (2012). The BIOAIR project: the biomass to energy chain (BEC) characterization in Portugal. CLIMA 2012. 1-2 Junho 2012, Caparica, Portugal.
6. Ferreira, J., Sá, E., Martins, H., Monteiro, A., Tavares, R., **Ribeiro, I.**, Carvalho, A., Miranda, A.I., Borrego, C. (2009). Relação Qualidade do Ar e Exposição de longo prazo da população a Poluentes Atmosféricos. X Congresso Nacional de Engenharia do Ambiente, 1-2 Outubro 2009, Faro, Portugal.

## Chapter of books

1. **Ribeiro, I.**, Martins, H., Monteiro, A., Rafael, S., Lopes, M. Biofuels in Portugal: a way to sustainability?. Energy Science and Technology, Vol 6, Studium Press LLC, USA (in press).
2. **Ribeiro, I.**, Valente, J., Amorim, J., Miranda, A., Lopes, M., Borrego, C., & Monteiro, A. (2014). Air Quality Modelling and Its Applications. In G. Cao & R. Orrù (Eds.), Current Environmental Issues and Challenges SE - 3 pp. 45–56. Springer Netherlands. doi:10.1007/978-94-017-8777-2\_3.
3. **Ribeiro, I.**, Lopes, M. (2013). Characterization of biofuel chain in Portugal. Impacts of Biomass to Energy Chain on Air Quality and Portuguese Climate Policy. Aveiro. Universidade de Aveiro. ISBN: 978-989-98673-2-1. pp. 37-44.
4. **Ribeiro, I.**, Rafael, S., Monteiro, A. (2013). The impact of the biodiesel use on road transportation on air pollutant emissions in Portugal. Aveiro. Universidade de Aveiro. ISBN: 978-989-98673-2-1. pp. 45-50.
5. **Ribeiro, I.**, Martins, H., Carvalho, A., Sá, E. (2013). Impact of road transport biodiesel in air quality for present and future climate. Aveiro. Universidade de Aveiro. ISBN: 978-989-98673-2-1. pp. 51-55.
6. Borrego, C., Lopes, M., Valente, J., Neuparth, N., Martins, P., Amorim, J. Costa, A.M, Silva, J., Martins, H., Tavares, T., Nunes, T., Miranda, A. I., Cascão, P., **Ribeiro, I.** (2009). The Importance of urban Planning on air Quality and human Health Urban Planning in the 21st Century. Nova Science Publishers, Inc. (ISBN: 978-1-60692-975-9).

## Books

1. Lopes, M., Tarelho, L., **Ribeiro, I.** Monteiro, A., Martins, H., Rafael, S., Miranda, A.I., Borrego, C.(2013). Impacts of Biomass to Energy Chain on Air Quality and Portuguese Climate Policy. Aveiro. Universidade de Aveiro. ISBN: 978-989-98673-2-1. 68 pp.
2. Borrego C., Miranda A.I., Monteiro A., **Ribeiro I.**, Sá E., Martins V. (Eds.) (2010) Air quality modelling: a Key policy-driving tool. Aveiro. Universidade de Aveiro. 87 pp.

## Reports

1. Paschalidi, Z., **Ribeiro, I.**, Elbern, H. (2015). The research activities for REKLIM - Topic 5. Report 7. Rhenish Institute for Environmental Research at the university of Cologne, June 2015.
2. Lopes, M., Tarelho, L., Monteiro, A., **Ribeiro, I.**, Rafael, S., Martins, H., Sá, E., Carvalho, A., Monteiro, A.C., Cascão, P., Martins, V., Miranda, A.I., Borrego, C., Amaral, J.L., Machado, L. (2013). BIOG AIR - Impacts of biomass to energy chain on air quality and Portuguese climate policy (PTDC/AAC-AMB/103866/2008;FCOMP-01-0124-FEDER-008587) – Final report. Universidade de Aveiro. AMB-QA-07/2013, Aveiro, Portugal, 66.
3. Miranda, A.I., Monteiro, A., Martins, H., **Ribeiro, I.**, Gama, C., Lopes, D. (2013). Implementação e avaliação de ferramentas de validação de modelos de Qualidade do Ar (DELTA Tool do FAIRMODE). Universidade de Aveiro. AMB-QA-04/2013, 45.
4. Miranda, A.I., Monteiro, A., **Ribeiro, I.**, Gama, C., Fernandes, A.P., Marques, F., Lopes, D. (2013). Avaliação da qualidade do ar para efeitos de reporting à Comissão Europeia – 2012 & outros desenvolvimentos. Protocolo APA/UA 2011-2013, Avaliação e previsão da qualidade do ar em Portugal – R4. Universidade de Aveiro. AMB-QA-03/2013, 101.
5. Miranda, A.I., Borrego C., Monteiro A., Monteiro A.C., Gama C., **Ribeiro I.** (2012). Avaliação do sistema de previsão da qualidade do ar e novos desenvolvimentos no sistema de previsão. Protocolo APA/UA 2011-2013, Avaliação e previsão da qualidade do ar em Portugal – R3. Universidade de Aveiro. AMB-QA-07/2012, 46.
6. Miranda, A.I., Borrego C., Monteiro A., Tchepel O., **Ribeiro I.**, Monteiro, A.C., Fernandes, A.P. (2012). Avaliação da qualidade do ar para efeitos de reporting à Comissão Europeia – 2010 e 2011. Protocolo APA/UA 2011-2013, Avaliação e previsão da qualidade do ar em Portugal – R2. Universidade de Aveiro. AMB-QA-04/2012, 131.
7. Borrego C., Monteiro A., **Ribeiro I.**, Tchepel O., Sá E., Carvalho A., Ferreira J., Martins V., Martins H., Miranda A.I. (2011) Projecto ENSEMBLAIR - Diagnóstico da qualidade do ar usando a média de conjunto dos resultados de modelos. Relatório final. Universidade de Aveiro. AMB-QA-02/2011, 51.
8. Borrego C., Miranda A.I., Monteiro A., **Ribeiro I.**, Amorim J.H., Cascão P. (2010) Previsão da qualidade do ar em Portugal. Relatório R4. Universidade de Aveiro. AMB-QA-05/2010, Aveiro, Portugal. 43.
9. Borrego C., Monteiro A., Sá E., **Ribeiro I.**, Martins V., Carvalho A., Martins H., Miranda A.I. (2009) Projecto ENSEMBLAIR (PTDC/AMB/69599/2006) - Relatório de Progresso 1º ano. Universidade de Aveiro. AMB-QA-03/2009, Aveiro, Portugal. 50.
10. Borrego, C., Miranda, A.I., Ferreira, J., Tchepel, O., Monteiro, A., Dias, D., **Ribeiro, I.**, Tavares, R., Barbedo, P. (2009) Melhoria do actual inventário de emissões de poluentes atmosféricos da Região Norte. Universidade de Aveiro. AMB – QA – 09/2009, Aveiro, Portugal. 202 pp.
11. Borrego, C., Coutinho, M., Mata, P., Pinto, R., Leitão, L., Carvalho, A., **Ribeiro, I.**, Lopes, M. (2009). Plano de Acção da Agenda Global para o Ambiente 2009-2013. Edição: Comissão de Coordenação e Desenvolvimento Regional do Norte (CCDR-N) e Ministério do Ambiente, do Ordenamento do Território e do Desenvolvimento Regional. ISBN: 978-972-734-277-8.
12. Borrego C., Miranda A.I., Carvalho A., Valente J., Sá E., **Ribeiro I.**, Sousa S. (2009) Combustão residencial: emissões de PM10 e impacto na qualidade do ar em Portugal. Universidade de Aveiro. AMB-QA-8/2009, Aveiro, Portugal.
13. Borrego, C., Miranda, A. I., Monteiro, A., Martins, H., Barbedo, P., **Ribeiro, I.** (2008). Inventário das Emissões de Poluentes Atmosféricos da Região Norte, R1 – Desenvolvimento do Inventário “top-down”, Universidade de Aveiro AMB – QA – 09/2008. Estudo realizado no âmbito de protocolo de colaboração com a CCDR-Norte.
14. Borrego, C., Miranda, A. I., Monteiro, A., Sá, M. E., **Lavrador, I.** (2008). Previsão da qualidade do ar em Portugal. Relatório 3, Protocolo APA/UA (AMB-QA-05/2008), Julho 2008.