

PERSONAL INFORMATION

Mag. Christian Pfeiffer, Bakk.



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Sex Male | Date of birth 25/09/1985 | Nationality Österreich

Public Profiles [ORCID](#) [LinkedIn](#) [ResearchGate](#)

POSITIONS

05/2020–Present

Senior Scientist

Forschung Burgenland GmbH, Eisenstadt

Research Area **Energy Transition**, Head of Social Science

Quantitative data analysis in **engineering, social and economic research**

Statistical modelling, predictive analytics, extrapolation techniques and experimental design

09/2015–Present

Lecturer

University of Applied Sciences Burgenland, Eisenstadt

**Statistics** in Business Studies, Information Technology, Energy and Environment

**Maths** in Business Studies

11/2014–04/2020

Researcher

Forschung Burgenland GmbH, Eisenstadt

Quantitative data analysis in **engineering, social and economic research**

Statistical modelling, predictive analytics, extrapolation techniques and experimental design

EDUCATION

03/2012–07/2014

Master's degree in Statistics

University of Vienna

Master's thesis:

Statistical analysis of corporate default probability in lease finance

03/2009–03/2012

Bachelor's degree in Statistics

University of Vienna

Bachelor's theses:

- Statistical consulting in veterinarian medicine

- Design and execution of an experiment by means of an example in chemical process industry

## RESEARCH

### Participation in Research Projects

- SmartU, Austrian Research Promotion Agency (FFG)  
since 09/2021
- Car2Flex, Austrian Research Promotion Agency (FFG)  
since 01/2021
- Cool-down Güssing, Austrian Research Promotion Agency (FFG)  
since 04/2020
- BEYOND, Austrian Research Promotion Agency (FFG)  
since 02/2020
- Heat Water Storage Pooling, Austrian Research Promotion Agency (FFG)  
since 10/2019
- Hybrid DH DEMO, Austrian Research Promotion Agency (FFG)  
since 03/2019
- GEL OpenDataPlatform, Austrian Research Promotion Agency (FFG)  
since 11/2018
- EDMA, Austrian Research Promotion Agency (FFG)  
06/2018 – 12/2018
- Hybrid Grids DEMO, Austrian Research Promotion Agency (FFG)  
05/2015 – 04/2019

### Journal Articles

- König, B.; **Pfeiffer, C.**; Wieschhoff, M.; Karpova, E. (2021): Screw versus cork? New directions on quality perceptions from the perspective of Austrian wine consumers. *International Journal of Wine Business Research*, [Accepted](#).
- Bjarghov, S.; Löschenbrand, M.; Ibn Saif, A. U. N.; Alonso Pedrero, R.; **Pfeiffer, C.**; Khadem S. K., Rabelhofer, M.; Revheim, F.; Farahmand, H. (2021): Developments and Challenges in Local Electricity Markets: A Comprehensive Review. *IEEE Access* 9, pp. 58910-58943, DOI: [10.1109/ACCESS.2021.3071830](https://doi.org/10.1109/ACCESS.2021.3071830).
- Pfeiffer, C.**; Puchegger, M.; Maier, C.; Tomaschitz, I. V.; Kremsner, T. P.; Gnam, L. (2021): A Case Study of Socially-Accepted Potentials for the Use of End User Flexibility by Home Energy Management Systems. *Sustainability* 13(1), 132, DOI: [10.3390/su13010132](https://doi.org/10.3390/su13010132).

### Conference Contributions (selected)

- Pfeiffer, C.**; Stolavetz, C.; Maier, C. (2021): Visualisierung von Stromverbrauch, -erzeugung und Netzeinspeisung – eine Untersuchung zum Verständnis von Energiedaten. *Science.Research.Pannonia*, [Accepted](#).
- Kremsner, T. P.; **Pfeiffer, C.**; Marhold, N. (2021): Individuelle Emotionen als Unterstützung zur Visualisierung des Stromverbrauchs einzelner Haushaltsgeräte. *Science.Research.Pannonia*, [Accepted](#).
- Pfeiffer, C.**; Kremsner, T. P.; Maier, C.; Marhold, N. (2021): A Comprehensive Study on the Aesthetics of Electricity Consumption Graphs on Appliance Level and their Triggering Potential on Human Emotions. *Proceedings of 16th Conference on Sustainable Development of Energy, Water and Environment Systems: Dubrovnik, 10.-15.10.2021*.
- Pfeiffer, C.**; Stolavetz, C.; Maier, C. (2021): An Experimental Investigation on the Comprehension of Electricity Consumption, Generation and Grid Supply Visualization. *Proceedings of 16th Conference on Sustainable Development of Energy, Water and Environment Systems: Dubrovnik, 10.-15.10.2021*.
- Maier, C.; **Pfeiffer, C.**; Millendorfer, M. (2021): A User Perspective on current Drivers and Barriers for Electric Vehicle Usage in Austria. *Proceedings of 16th Conference on Sustainable Development of Energy, Water and Environment Systems: Dubrovnik, 10.-15.10.2021*.
- Schindler, M.; **Pfeiffer, C.**; Millendorfer, M.; Rabelhofer, M.; Maier, C.; Gnam, L. (2021): An interdisciplinary approach of a local peer-to-peer energy trading model for a more sustainable power grid. *Proceedings of 16th Conference on Sustainable Development of Energy, Water and Environment Systems: Dubrovnik, 10.-15.10.2021*.
- Gnam, L.; Gschwandtner, B.; Tomaschitz, I. V., **Pfeiffer, C.** (2021): An Optimization Approach for Designing an Energy System Based on Renewable Energy Sources for an Austrian Farm. *Energy*

Informatics 2021 4(Suppl 4):26. DOI: [10.1186/s42162-021-00184-2](https://doi.org/10.1186/s42162-021-00184-2).

Gnam, L.; **Pfeiffer, C.**; Puchegger, M.; Nacht, T. (2021): A Mixed-Integer Linear Optimization Approach for Efficient Utilization of Wind Power for District Heating. 14. Forschungsforum der österreichischen Fachhochschulen. [Accepted](#).

**Pfeiffer, C.**; Hatzl, S.; Fleiß, E.; Maier, C.; Kremsner, T. (2020): A Typology of End Users' Willingness to share Energy Data. Science.Research.Pannonia 22, S. 57-66. Graz: Leykam. ISBN 978-3-7011-0460-4.

Gnam, L.; **Pfeiffer, C.**; Rabelhofer, M., Maier, C. (2020): A Review on Local Energy Markets and Peer-to-Peer Energy Trading. Science.Research.Pannonia 22, S. 27-31. Graz: Leykam. ISBN 978-3-7011-0460-4.

Kremsner, T. P.; **Pfeiffer, C.**; Marhold, N.; Kummer, C.; Holper, M. (2020): Optimierung von Smart Home Energy Management Systemen mit Usability-Tests. Science.Research.Pannonia 22, S. 42-49. Graz: Leykam. ISBN 978-3-7011-0460-4.

Stöller, J.; **Pfeiffer, C.** (2020): Eine Typologie zum Freizeitverhalten der 11- bis 14-Jährigen als Grundlage für die Gestaltung zielgruppenspezifischer Maßnahmen in der Gesundheitsförderung. Das Gesundheitswesen Vol. 82(05), S. 462, DOI: [10.1055/s-0040-1708993](https://doi.org/10.1055/s-0040-1708993).

**Pfeiffer, C.**; Maier, C.; Kremsner, T.; Gnam, L.; Rabelhofer, M. (2020): Preferences on Home Energy Management Systems – A Study of Potentials for the Use of End User Flexibilities. Proceedings of 15th Conference on Sustainable Development of Energy, Water and Environment Systems: Cologne, 01.-05.09.2020.

**Pfeiffer, C.**; Rabelhofer, M., Stolavetz, C., Stöller, J., Peschel, I.; Wukowitsch, M.; Gnam, L. (2020): Open Innovation Processes as Drivers for Business Model Developments Enabling a Successful Energy Transition. Proceedings of 15th Conference on Sustainable Development of Energy, Water and Environment Systems: Cologne, 01.-05.09.2020.

Gnam, L.; **Pfeiffer, C.**; Puchegger, M. (2020): Langfristige Prognose für den Wärmebedarf eines Nahwärmenetzes unter Berücksichtigung demografischer Entwicklungen. 16. Symposium Energieinnovation 2020: 12.-14.02.2020, Graz: Technische Universität Graz.

Rabelhofer, M.; **Pfeiffer, C.**; Stöller, J. (2018): On the challenges of empowering citizens in technological innovation matters. Proceedings of 13th Conference on Sustainable Development of Energy, Water and Environment Systems: Palermo, 30.09.-04.10.2018.

**Pfeiffer, C.**; Rabelhofer, M. (2018): Participation in Energy Transition – Challenges within the Scope of Smart Grids. Proceedings of 3rd South East European Conference on Sustainable Development of Energy, Water and Environment Systems: Novi Sad, 30.06.-03.07.2018.

**Pfeiffer, C.**; Stöller, J. (2018): Dimensionen des subjektiven Sicherheitsempfindens Älterer in einer Grenzregion des Burgenlandes. 12. Forschungsforum der österreichischen Fachhochschulen: 04.-05.04.2018, Salzburg: Fachhochschule Salzburg.

Steindl, G.; **Pfeiffer, C.**; Puchegger, M. (2017): Künstliche Neuronale NARX-Modelle zur Wärmebelastungsprognose von Nahwärmenetzen. Science.Research.Pannonia 16, S. 161-168. Graz: Leykam.

Steindl, G.; **Pfeiffer, C.** (2017): Comparison of Black Box Models for Load Profile Generation of District Heating Networks. Proceedings of 12th Conference on Sustainable Development of Energy, Water and Environment Systems: Dubrovnik, 04.-08.10.2017.

**Talks** **Pfeiffer, C.**; Steindl, G. (2017): Vergleich von Black Box Modellen zur Erzeugung synthetischer Fernwärmenetzprofile. 13. Predictive Analytics Konferenz: 10.-11.10.2017. Wien: Tech Gate Vienna. URL: <http://www.predictive-analytics.at/main.asp?VID=1&kat1=113&kat2=728>.

König, B.; **Pfeiffer, C.**; Wieschhoff, M. (2017): The importance of origin as quality indicator for sparkling wine consumers. 11th Annual American Association of Wine Economists Conference: 28.06.-02.07.2017, Padua: University of Padua. URL: <http://www.wine-economics.org/aawe/wp-content/uploads/2017/06/Bettina-König-The-importance-of-origin-as-quality-indicator-for-sparkling-wine-consumers.pdf>.

**Distinctions** Burgenland-Stiftung Theodor Kery (2020): **Kery-award in economic and social sciences**. URL: <http://www.kerystiftung.at/preistraeger/preistraeger-2020/die-zukunft-des-wohnens/>.