

Clotilde Pierson, Ph.D.

clotilde.pierson@oregonstate.edu

CURRENT POSITION

Dec. 2021 → Present | **Assistant Professor in Arch. Eng. | Culbertson Faculty Scholar**
Oregon State University, USA

EDUCATION

Oct. 2015 → Nov. 2019 | **PhD in Engineering Sciences and Technology**
Université catholique de Louvain, Belgium
Mobility: - EPFL, Switzerland (12 months)
- Universidad del Bío-Bío, Chile (1 month)
- Tokai University, Japan (1 month)
Thesis: "Discomfort glare perception from daylight: influence of the socio-environmental context"
Supervisors: Prof. Magali Bodart (UCLouvain) & Dr. Jan Wienold (EPFL)

Sep. 2012 → Jun. 2014 | **M.Sc. in Architectural Engineering**
Université catholique de Louvain, Belgium
Mobility: Norwegian University of Science and Tech., Norway (5 months)
Thesis: "Design of a long-term care facility: architecture to support recovery"
Grade: cum laude

Sep. 2009 → Jun. 2012 | **B.Sc. in Architectural Engineering**
Université catholique de Louvain, Belgium
Grade: cum laude

PROFESSIONAL EXPERIENCE

Mar. 2021 → Dec. 2021 | **Guest Professor** (part-time), Vrije Universiteit Brussel, Belgium
Responsibilities: teach the graduate course "Daylighting in Buildings"

Dec. 2019 → Dec. 2021 | **Postdoctoral Researcher**, EPFL, Switzerland
Mobility: Eindhoven University of Technology, Netherlands (4 months)
Research: "Simulation of non-visual response to daylight"

Jan. 2015 → Sep. 2015 | **Architect** (part-time), La Verte Voie - collectif d'architectes, Belgium
Responsibilities: design and manage private housing architecture projects

Oct. 2014 → Sep. 2015 | **Research Assistant** (part-time), Université cath. de Louvain, Belgium
Research: "Sustainable alternatives to reduce construction costs"

GRANTS & FELLOWSHIPS

2019 | **EuroTech Postdoc Fellowship**
Funding Org.: European Union (Horizon 2020)

2019 | **BAEF Postdoctoral Fellowship** (declined)
Funding Org.: Belgian American Educational Foundation (BAEF)

2018 | Contribution to a proposal for a **SNSF Research Grant** (awarded)
Funding Org.: Swiss National Science Foundation (SNSF)
PI: Dr Jan Wienold
Title: "Visual comfort without borders: Interactions on discomfort glare"

2015 | **FNRS Research Fellowship**
Funding Org.: Belgian Fund for Scientific Research (F.R.S. - FNRS)

2012 | **Erasmus Fellowship**
Funding Org.: European Union

PUBLICATIONS

Peer-Reviewed Journal Papers

- 2022 **Pierson C.**, Aarts M., Andersen M. (2022). Validation of spectral simulation tools in the context of ipRGC-influenced light responses of building occupants. Manuscript submitted for publication in Journal of Building Performance Simulation.
- Quek G., Jain S., Karmann C., **Pierson C.**, Wienold J., Andersen M. (2022). A critical analysis of questionnaire items for discomfort glare studies in daylight spaces. Manuscript submitted for publication in Lighting Research & Technology.
- 2021 **Pierson C.**, Piderit B., Iwata T., Bodart M., Wienold J. (2021). Is There a Difference in how People from Different Socio-Environmental Contexts Perceive Discomfort Due to Glare from Daylight? Lighting Research & Technology. DOI:10.1177/1477153520983530.
- 2020 **Pierson C.**, Cauwerts C., Bodart M., Wienold J. (2020). Tutorial: Luminance Maps for Daylighting Studies from High Dynamic Range Photography. LEUKOS, 14(3), 111-148. DOI:10.1080/15502724.2019.1684319.
- 2019 Wienold J., Iwata T., Sarey Khanie M., Erell E., Kraftan E., Rodriguez R., Yamin Garretton J.A., Tzempelikos T., Konstantzos I., Christoffersen J., Kuhn T.E., **Pierson C.**, Andersen M. (2019). Cross-Validation and Robustness of Daylight Glare Metrics. Lighting Research & Technology, 51(7), 983-1013. DOI:10.1177/1477153519826003.
- 2018 **Pierson C.**, Wienold J., Bodart M. (2018). Daylight Discomfort Glare Evaluation with Evalglare: Influence of Parameters and Methods on the Accuracy of Discomfort Glare Prediction. Buildings, 8(8), 94. DOI:10.3390/buildings8080094.
- Pierson C.**, Wienold J., Bodart M. (2018). Review of Factors Influencing Discomfort Glare Perception from Daylight. LEUKOS, 14(3), 111-148. DOI:10.1080/15502724.2018.1428617.

Peer-Reviewed Conference Papers and Extended Abstracts

- 2022 Gkaintatzi-Masouti M., **Pierson C.**, Van Duijnhoven J., Andersen M., Aarts M. (2022). A simulation tool for indoor lighting design considering ipRGC-induced responses. Abstract accepted; manuscript submitted for publication at BuildSim Nordic 2022, Copenhagen, Denmark.
- 2021 **Pierson C.**, Gkaintatzi-Masouti M., Aarts M., Andersen M. (2021). Validation of Spectral Simulation Tools for the Prediction of Indoor Electric Light Exposure. CIE Midterm Session, Online, Sep. 27-29, 2021.
- Pierson C.**, Soto Magán V., Aarts M., Andersen M. (2021). A Conceptual Simulation Workflow to Guide Design Decisions Regarding the Effects of Daylight on Occupants' Alertness. Journal of Physics: Conference Series 2042, CISBAT 2021 Special issue. DOI:10.1088/1742-6596/2042/1/012116.
- Pierson C.**, Aarts M., Andersen M. (2021). Validation of Spectral Simulation Tools for the Prediction of Indoor Daylight Exposure. Building Simulation 2021, Bruges, Belgium, September 1-3, 2021.
- 2020 Andersen M., Soto Magan V., Webler F., **Pierson C.** (2020). Light Hygiene in the Built Environment. ANFA International Conference, Online, September 14-25, 2020.

2019	Pierson C. , Sarey Khanie M., Bodart M., Wienold J. (2019). Discomfort Glare Cut-Off Values from Field and Laboratory Studies. CIE Quadrennial Session, Washington D.C., USA, June 17-20, 2019.
2017	Pierson C. , Piderit M.B., Wienold J., Bodart M. (2017). Discomfort Glare from Daylighting: Influence of Culture on Discomfort Glare Perception. CIE Midterm Session, Jeju, South Korea, Oct. 20-28, 2017. Pierson C. , Wienold J., Bodart M. (2017). Discomfort Glare Perception in Daylighting: Influencing Factors. Energy Procedia, 122, 331-336. DOI:10.1016/j.egypro.2017.07.332.
	Pierson C. , Wienold J., Jacobs A., Bodart M. (2017). Luminance Maps from High Dynamic Range Imaging: Calibrations and Adjustments for Visual Comfort Assessment. LuxEuropa, Ljubljana, Slovenia, Sept. 18-20, 2017.
2015	Pierson C. , Evrard A. (2015). Optimization of Facade Wall Building Systems in Walloon Region. International PLEA Conference, Bologna, Italy, Sept. 9-11, 2015.

Contributions to Conferences and Workshops

2020	Pierson C. , Aarts M., Andersen M. (2020). Applicability of Spectral Simulation to Predict Non-Visual Response to Daylight. EuroTech Postdoc Workshop, Copenhagen, Denmark, March 9-11, 2020.
2019	Pierson C. , Wienold J., Bodart M. (2019). Is Daylight Glare Perceived Differently by People from Different Cultures? VELUX Daylight Symposium, Paris, France, October 09-10, 2019.
2018	Pierson C. , Wienold J., Bodart M. (2018). Daylight Discomfort Glare Evaluation with Evalglare: Influence of Parameters and Methods on the Accuracy of Discomfort Glare Prediction. International Radiance Workshop, Loughborough, UK, Sept. 03-04, 2018. Pierson C. (2018). Discomfort Glare from Daylighting: Study of Factors Influencing Discomfort Glare Perception and Validation of a Universal Discomfort Glare Index. LumeNet, Copenhagen, Denmark, Aug. 16-17, 2018. Pierson C. , Wienold J. (2018). High Dynamic Range Images Calibration for Luminance Maps Creation. CIE Expert Tutorial and Workshop on Research Methods for Human Factors in Lighting, Copen., Denmark, Aug. 13-14, 2018. Pierson C. , Wienold J., Altomonte S., Bodart M. (2018). Evaluation of Discomfort Glare through Glare Scales: What are we Really Measuring? CIE Expert Tutorial and Workshop on Research Methods for Human Factors in Lighting, Copenhagen, Denmark, Aug. 13-14, 2018.
2017	Pierson C. , Cauwerts C., Wienold J., Bodart M. (2017). Discomfort Glare from Daylighting: Study of Factors Influencing Discomfort Glare Perception and Validation of a Universal Discomfort Glare Index. VELUX Daylight Symposium, Berlin, Germany, May 02-04, 2017.
2016	Pierson C. , Bodart M. (2016). Validation and Universalization of Daylight Glare Probability Index. LumeNet, Ghent, Belgium, Apr. 07-08, 2016.

Datasets

2022	Pierson, Clotilde. (2022). Validation of Spectral Light Simulation Tools: Dataset of Simulated and Measured Indoor Light Exposure [Data set]. Zenodo. DOI:10.5281/zenodo.5919054.
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TEACHING AND SUPERVISION

2022	Co-Instructor Oregon State University, US Course: "Civil Engineering Professional Practice" Level: Undergraduate students (± 125)
2021	Guest Professor Vrije Universiteit Brussel, Belgium Course: "Daylighting in Buildings" Level: Graduate students (± 20) Supervisor EPFL, Switzerland Student: Sâm Afchar, MSc in Civil Engineering and Architecture (Dual training) Master's Thesis: "Influence of building occupants' view direction on their non-visual responses to artificial light" Teaching Assistant EPFL, Switzerland Course: "Comfort and Architecture: Sustainable Strategies" Level: Graduate students (± 50) Guest Lecturer Eindhoven University of Technology, The Netherlands Course: "Capita Selecta Lighting Technology" Level: Graduate students (± 15)
2020	Teaching Assistant EPFL, Switzerland Course: "Comfort and Architecture: Sustainable Strategies" Level: Graduate students (± 40) Teaching Assistant Eindhoven University of Technology, The Netherlands Course: "Physics of light and lighting design" Level: Undergraduate students (± 30) Guest Lecturer Centre for Environmental Planning and Technology University, India Course: "Lighting, Daylighting and Integrated Design Lab" Level: Graduate students (± 30) Guest Lecturer Eindhoven University of Technology, The Netherlands Course: "Capita Selecta Lighting Technology" Level: Graduate students (± 15)
2019 & 2017	Guest Lecturer Université catholique de Louvain, Belgium Course: "Architectural Research Seminar: Applied Physics" Level: Graduate students (± 40)

COMMITTEES AND SERVICES

Oct. 2020 → Present	International Scientific Committee Member Committee: CIE Technical Committee TC 2-86 Tasks: participate in meetings and contribute to the writing of a technical report
Oct. 2017 → Present	International Scientific Committee Member Committee: CIE Technical Committee TC 3-56

Oct. 2017 → Present	<p>Tasks: participate in meetings and contribute to the writing of a technical report</p> <p>National Scientific Committee Member</p> <p>Committee: IBE-BIV - Work Group B " Light applications"</p>
Dec. 2016 → Present	<p>Tasks: participate in meetings and annual seminar</p> <p>Reviewer for Scientific Journals</p> <p>Journals: Architectural Science Review, Building and Environment, Building Simulation, Indoor and Built Environment, Journal of Building Performance Simulation, Journal of Environmental Psychology, LEUKOS, Lighting Research & Technology</p>

SKILLS AND INTERESTS

Languages	French (mother tongue), English (fluent), Dutch (basic), Spanish (basic)
Technical	Data management, experimental and survey design, statistical analysis
Relational	Public speaking, technical presentation, teaching, written communication
IT	R, Python, Matlab, LATEX, MS Office
Design and modeling	AutoCAD, Rhino, Grasshopper, Sketchup
Light measurement	High Dynamic Range (HDR) imaging, spectroscopy, photometry
Computer simulation	Radiance, Ladybug, Honeybee, DIALux, DIVA, ALFA, ClimateStudio, VELUX Daylight Visualizer
Interests	Sustainability, energy efficiency, well-being, building science, daylighting