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1.   Academic background

Degrees. Doctor of Philosophy (Ph.D.) in Information Science, April 2010, University of Gothenburg, Sweden, and Master's of Science in Information Resources Management (M.S.), June 2001, School of Information Studies, Syracuse University, USA.

Undergraduate education. Nov. 1979 – March 1984, Sapienza University of Rome, Italy, Diploma di Laurea in Sociology.

2.   Academic employment history

March 2021 – present. Associate Professor in Informatics (Swedish rank: *Docent*), Department of Applied IT, University of Gothenburg, Sweden.

March 2023 – Feb. 2024. Member of the expert group *Innovation Friendly Regulations Advisory Group – IFRAG* appointed by the European Commission Directorate-General for Research and Innovation.

July 2014 – March 2021. Assistant Professor (*Universitetslektor*), Department of Applied IT, University of Gothenburg, Sweden.

Sept. 2018 – Aug. 2019. Scientific Officer – Researcher, European Commission, DG Joint Research Centre (JRC), Strategy and Work Programme Coordination Scientific Development Unit, Ispra, Italy.

July 2012 – June 2014. Visiting postdoctoral fellow funded by the Swedish Research Council, at InterMedia, Faculty of Educational Sciences, University of Oslo, Norway.

Feb. 2011 – Apr. 2012. Senior lecturer (lektor) at the Department of Applied IT, University of Gothenburg, Sweden (80% of full time).

Oct. 2010 – Dec. 2010. Guest lecturer at the Department of Applied IT, University of Gothenburg, Sweden (80% of full time).

July 2010 – Sept. 2010. Researcher at the Swedish School of Library and Information Science, University of Borås, Sweden.

March 2008 – Oct. 2010. Research Associate at the "Carlo F. Dondena" Centre for Research on Social Dynamics (DONDENA), Università Bocconi, Milan, Italy.

Nov. 2006 – Dec. 2009. Doctoral student at the Swedish School of Library and Information Science, University of Borås, Sweden. Full time position.

Feb. 2003 – Nov. 2006. Guest lecturer at the Department of Applied IT, University of Gothenburg, Sweden: participated in international research projects (see Research Projects). (50% of full time).

3.   Grants

March 2023 – Feb. 2024. Co-Investigator: *The Missing Teacher in AI: Involving Teachers in Metadesign of AI to Ensure FAIRness*. PI: Johan Lundin. Funded by Marianne and Marcus Wallenberg Foundation, within the Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society (WASP-HS). SEK 5,813,000. MMW 2021.0030.

2020-2023. Team leader (person responsible for the partner): *NordicPath: Nordic participatory, healthy and people-centred cities*. PI: Núria Castell, NILU, Norwegian Institute for Air Research. Funded by NordForsk under the Nordic Programme on Sustainable Urban Development and Smart Cities. 2020-2023. 1,800,000 NOK.

2019-2022. Principal Investigator (PI) (40% of full time): *Optimizing human computation using citizen science*. Sponsor: Marianne and Marcus Wallenberg Foundation, 3 740 000 SEK.

2014-2018. Co-investigator (55% of full time): *Taking science to the crowd: Researchers, programmers, and volunteer contributions transforming science online*. Sponsor: Marianne and Marcus Wallenberg Foundation, 12,325,000 SEK. PI: Dick Kasperowski.

2018. Visiting Researcher (5-day Short Term Scientific Mission): *Understanding engagement mechanisms in citizen science for participatory policy*. Host: Joint Research Center, Bruxelles and Ispra. Sponsor: COST Action CA 15212, 1000 Euros.

2016-2020. Grant proposal co-writer for the COST Action 15212 *Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe.* Sponsor: European Cooperation in Science and Technology (COST), ca. 560,000 Euros. Grant Holder: Museum fur Naturkunde - Leibniz Institut fur evolutions und Biodiversitatsforschung an der Humboldt Universitat zu Berlin (Berlin, Germany). (Acceptance rate: 6%).

2012-2014. Individual postdoctoral grant (principal investigator): *The Role of Open Models in Mutual Development in Non-Formal Education*. Sponsor: Swedish Research Council. Grant nr. 350-2012-346: 2,100,000 SEK.

3.1 Seed Grants

2015. PI: Seed grant from the Center for Skin Research, University of Gothenburg, 25,000 SEK, to organize the international workshop: *Involving Citizens in Melanoma Research – An Exploratory Workshop.*

2016. Co-PI (20% of full time): *Visualizing Citizen Scientist Clicks.* Departmental Internal Grant for Faculty, 320,000 SEK (three months). Project nr.: 2078151.

2014. PI: Seed grant from the Urban Heritage Cluster/Cultural Heritage Studies, School of Design and Crafts, University of Gothenburg, 25,000 SEK: "*Narratives of cities: Proposal for a Pilot Study*".

2006. PI: Study of a collaboratory among information professionals and library and information science researchers. Sponsor: BTJ (Swedish Library Service), 75,000 SEK (1st Prize).

3.2 Awards

2011. Winner of the 2010 Emerald/EFMD Outstanding Doctoral Research Award in the Information Science category. Dissertation chosen by the Editors of the *Journal of Documentation*.

4. Assignments for the European Commission and other Scientific Foundations

External Expert for the Joint Research Centre; Evaluator for Horizon 2020 – the EU Framework Programme for Research and Innovation; Reviewer for the European Innovation Council and SMEs Executive Agency (EISMEA), Science Foundation Ireland, Swiss National Research Foundation, and CHANSE (Collaboration of Humanities and Social Sciences in Europe)

Programme; Expert for the Austrian Science Fund and the Austrian Agency for International Cooperation in Education and Research.

5. Research networks

09/2016 – 06/2018.   Vice Chair of the COST Action OC-2015-2-20105 *Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe.* From 09/2019 to 09/2020 Member of the Management Committee (MC) of the Action.

05/2022 – . Coordinator for the participation of the Department of Applied IT at the University of Gothenburg in NAIXUS – Global Network of Excellence in AI and SDGs.

2014-2016. Member of LetStudio, a strategic initiative funded by the University of Gothenburg for promoting interdisciplinary research within the learning sciences.

2010-2016. Member of the Linnaeus Centre for Research on Learning, Interaction and Mediated Communication in Contemporary Society (LinCS), funded by the Swedish Research Council.

6. Teaching and supervision

6.1 Teaching training

2020. Pedagogical course on Teaching and Learning in Higher Education HPE103 at the University of Gothenburg, 5 credits.

2019. Pedagogical course on Supervision in Postgraduate Programmes in Higher Education HPE201 at the University of Gothenburg, 5 credits.

2014. Pedagogical course on Teaching and Learning in Higher Education HPE102 at the University of Gothenburg, 5 credits.

2012. Pedagogical course on Teaching and Learning in Higher Education HPE101 at the University of Gothenburg, 5 credits.

6.2 Course development and teaching

Master programme in Human-Centered Artificial Intelligence, Department of Applied IT, University of Gothenburg. Contributed to the development of the programme. Starts in Autumn 2023.

MSc Course on Fairness, Accountability, Transparency, and Ethics, Programme on Human-centered AI, Department of Applied IT, University of Gothenburg. Course development. (10 weeks – mandatory course, 15 credits). Starts in 2024.

MSc Course on Data and Society, Department of Applied IT, University of Gothenburg. Responsible for development, coordination, and co-teaching (10 weeks – elective course, 7,5 credits). Starts in Autumn 2022.

Magister course on *Infrastrukturer och organisering av lärande och kommunikation* (Infrastructure and Organization for Learning Environments)*,* Department of Applied IT, University of Gothenburg (10 weeks – mandatory distance course, 7,5 credits)*.* Course manager and co-lecturer.

Teacher competence development course on *Introduktion till artificiell intelligens och lärande* (Introduction to Artificial Intelligence in Education). Department of Applied IT, University of Gothenburg, 2 credits. Online discussion facilitator.

MSc Course on *Applied Research Methods and Design,* Department of Applied IT, University of Gothenburg. Responsible for development, coordination, and co-teaching (10 weeks – mandatory campus course, 15 credits).

Guest lecturer at the Department of Applied IT, University of Gothenburg, Sweden for a graduate course on *Information and Communication Technologies*, campus and distance format (co-developer of the course and co-teacher).

Adjunct lecturer of Italian as a foreign language. Graduate students of Architecture. Syracuse University, USA.

6.3 As invited lecturer – selection of recent lectures

Feb. 2023. Digital Cities Lecture Series held within the Module Digital Cities, MA Planning Built Environment, Birmingham City University. One lecture on *Data Marginalization and the Right to the Digital City*.

Dec. 2016. MSc Programme on Interaction Design and Technologies, *Citizen Science and HCI: A tie to be strengthened*. One lecture on digital technologies in citizen science.

Sept. 2014. MSc Course on *Technology, Knowledge and Learning: An Introduction,* University of Gothenburg. One lecture on emerging forms of teaching and learning.

March 2013. MSc Course on *Technology-enhanced learning: principles and tools*, organized by the Department of Informatics, University of Oslo.

6.4 Advising, mentoring and serving in dissertation examination committees

- Bo Yang, doctoral student. Co-advisor, AIT Department, 10/2020 – present, University of Gothenburg.
- Anna Jia Gander, postdoc. Mentor, AIT Department, 09/2019 – 05/2021, University of Gothenburg.
- Marie Utterberg, postdoc. Mentor, AIT Department, 06/2022 – ongoing, University of Gothenburg.
- Ph.D. Examination Panel, Chair – Julián A. Vicens Bennasar, Department of Education, Universitat Rovira i Virgili, Tarragona, Spain, May 18, 2018.
- Ph.D. Thesis Co-advisor - Anne Algers, AIT Department (Ph.D. October 30, 2015), University of Gothenburg.
- Supervisor of several Master's and Magister's theses, AIT Department, from 2016 onwards.
- Examiner, International Master's Programme in Information Technology and Learning, Department of Education, Communication and Learning, 2016 – onwards.

6.5 Management of educational programs

2015 – 2017. Member of the council for the International Master's Programme in Information Technology and Learning, offered by the Department of Applied Information Technology in collaboration with the Department of Education, Communication and Learning, University of Gothenburg, Sweden.

7. Service

7.1 Reviewing

- Journals and Conferences: Environmental Monitoring and Assessment; Humanities and Social Sciences Communications; AI & Society; Computers in Education; Biogeographia – The Journal of Integrative Biogeography; HCOMP2020; Human Computation Journal; Citizen Science: Theory and Practice; Citizen Science Association Conference, St. Paul, MN; Qualitative Research; Human IT; Computers in Human Behavior; Learning, Culture and Social Interaction; Computer-Supported Cooperative Work Journal; Interacting with Computers; Network Learning Conference, Lancaster, UK.

7.2 Selected service activities

- Member of the Advisory Board of the EU project *European Citizen Science*, Topic: HORIZON-WIDERA-2021-ERA-01-60 (A capacity-building and brokering network to make citizen science an integral part of the European Research Area).

- Editorial Board of Environmental Citizen Science (specialty section of Frontiers in Environmental Science) – Review Editor.

- Guest Editor, *Humanities & Social Sciences Communications,* published by Springer Nature, for the Collection (or 'special issue') entitled: 'Community science'.

- Member of the Program Committee of HCOMP2020, the 8th AAAI Conference on Human Computation and Crowdsourcing. Oct 26–28 2020 Hilversum, NL.

- Member of the local Organizing Committee of NordiCHI 2016, Gothenburg, Sweden, 23-27 October 2016.

- Program Committee member, 4th International Workshop on Cultures of Participation in the Digital Age: From "Have to" to "Want to" Participate – In conjunction with NordiCHI'16.

- Program Committee member of the 1st European Citizen Science Association Conference "Citizen Science – Innovation in Open Science, Society and Policy," Berlin, May 19-21, 2016.

8. Selected talks and other conference activities (invited)

Co-Chair of the Roundtable Discussion *How Can We Ensure Algorithmic Fairness to Protect Children?* Community Reference Meetings on AI, Education and Children, organized by the Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society, 19 April, 2023.

Moderator, 2nd International Society for Digital Earth (ISDE) International Lecture (with Dr. Patricia Solis, Dr. Anna Berti Suman, Prof. Maria Antonia Brovelli), February 9th, 2023. Virtual lecture.

Speaker in the session *Grand Challenges Mapping*, AI for Humanity and Society Conference 2022, The Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society, Stockholm, 17 November 2022.

Talk on *Collective Intelligence for the Public Sector*. Digital Economy Unit, EU Joint Research Centre, Ispra, Italy, June 21, 2022.

Panelist for the Innovation Value Institute Autumn Webinar Series 2021, Maynooth University, Ireland, on *Collective Intelligence: How data can be used for the public good*. September 16th, 2021.

Panelist at the session on *Control, Communication, and Cybernetics - From Citizen Science to Citizen Intelligence*. ACM Collective Intelligence Conference, 29-30 June 2021. Copenhagen Business School, Hybrid Conference.

Panelist and session discussant at the Open Innovation in Science (OIS) Research Conference, April 7-9, 2021, Virtual Conference.

Heteromation in Citizen Science: The Division of Labour Between Citizens, Experts, and Machines (with Anna Jia Gander). February 5th, 2021. University of Gothenburg Webinars on Citizen Science.

Peer-to-Peer Learning in Higher Education. The PIL and Open University seminar series, September 2nd, 2020. Virtual seminar, organized by the Pedagogical Development and Interactive Learning (PIL) unit, University of Gothenburg.

Empowering Citizens through Computational Literacy, "Competences and Skills in the Governance of a Digitally Transformed Society", October 30th-31st, 2019, EU Joint Research Centre, Ispra, Italy.

Citizen Science in Healthcare, "European Stakeholder Round Table on Citizen Science – Towards a Citizen Science Roadmap", European Commission DG Research and Innovation. October 5th, 2017, Brussels. Organized within the framework of the H2020 Project Doing-it-Together science (DITOs).

Citizen Science as a New Way to Do Science, Dagstuhl Seminar 17272 Citizen Science: Design and Engagement, July 2-5, 2017, Schloss Dagstuhl – Leibniz Center for Informatics, Germany.

University of Gothenburg, *Getting it Right or Being Top Rank: Games in Citizen Science*, presentation at the workshop "Defining principles for mobile apps and platforms development in citizen science: Interaction, Interoperability, Innovation", organized by Naturblick, the European Citizen Science Association (ECSA), and the University of Gothenburg, April 25-27, 2017.

AU Ideas Center for Community Driven Research-CODER, Department of Physics and Astronomy, Aarhus University, Denmark - *Professional vision in playing a competitive game,* December 21, 2016.

Helmholtz Centre for Environmental Research – UFZ, *From North to South, from East to West: National and cultural differences of citizen science in Europe.* Group presentation at "Citizen Science and its science-policy impact-a comparison of international science systems", workshop organized by the German Centre for Integrative Biodiversity Research (iDiv), April 27-29, 2015, Leipzig, Germany.

9. Outreach and non-academic communication

2022. *Twitter as Hive Mind?* November 17, 2022. The Wallenberg AI, Autonomous Systems and Software Programs – – Humanities and Society (WASP-HS). Blog. https://wasp-hs.org/blogposts/twitter-as-a-hive-mind/

2022. *Making Fairness Concrete for AI in Education*. October 3, 2022. The Wallenberg AI, Autonomous Systems and Software Programs – – Humanities and Society (WASP-HS). Blog. https://wasp-hs.org/blogposts/making-fairness-concrete/

2019. *The JRC Digitranscope Project*. Public presentation at the Milan Digital Week, March 14, 2019. Co-presenter.

2015. Conversation with Elizabeth Ellsworth, Professor of Media Studies at the New School, NYC, as part of a plenary on "Open Source and Online Education". The Summit is a collaboration between Creative Time (http://creativetime.org/) and the 2015 Venice Biennale.

2014. *Do we always need teachers? The case for peer-to-peer learning*. Public presentation at the Science Festival, Gothenburg, May 9, 2014.

2011. Interview with Elisabet Norin on peer-to-peer education for *re:flex – en nättidning för folkbildningens flexibla lärande*. Available at http://www.reflex.folkbildning.net/?p=1727

2006. Ponti, M. *L'importanza del luogo nell'esperienza educativa in ambiente virtuale* (The Importance of Place for Learning in Virtual Environment). Study material for teacher education. National Institute of Documentation for Innovation and Educational Research (INDIRE), Florence, Italy.

2005. Ponti, M. *A Set of Learning Principles to Use Networked Learning with SMEs.* Published on the web site of the European Commission at http://www.elearningeuropa.info/en/article/A-Set-of-Learning-Principles-to-Use-Networked-Learning-with-SMEs

10. Scientific record

10.1 Refereed articles in scholarly journals

Ponti, M.*,* and Seredko, A. (2022). Human-Machine Learning Integration and Task Allocation in Citizen Science. *Humanities and Social Sciences Communications.* https://doi.org/10.1057/s41599-022-01049-z

Ponti, M., Kasperowski, D., and Gander, A-J (2022). Narratives of Epistemic Agency in Citizen Science Classification Projects: Ideals of Science and Roles of Citizens. *AI & Society: Knowledge, Culture and Communication 37*(1): 1-18*.* https://doi.org/10.1007/s00146-022-01428-9

Balestrini, M., Kotsev, A., Ponti, M., and Schade, S. (2021). Collaboration Matters: The Challenges of Capacity, Up-Scaling, Spreading, and Sustainability in Citizen-Generated Data Projects. *Humanities and Social Sciences Communications, 8,* 169. https://doi.org/10.1057/s41599-021-00851-5

Beck, S., Bercovitz, J., Bergenholtz, C., Brasseur, T. M., D'Este, P., Dorn, A., Doser, M., Dosi, C., Effert, A., Furtuna, R., Goodyear, M., Grimpe, C., Haeussler, C., Hans, F., Heinisch, B., Katona, N., Kleinberger-Pierer, H., Kokshagina, O., LaFlamme, M., Lawson, L., Lehner, P., Lifshitz-Assaf, H., Lukas, W., Marchini, S., Mitterhauser, M., Moscato, F., Nordberg, M., Norn, M. T., Poetz, M., **Ponti, M.,** Pruschak, G., Rafner, J. F., Romasanta, A. K., Ruser, A., Sameed, M., Sauermann, H., Suess-Reyes, J., Tucci, C. L., Tuertscher, P., Vicente Sáez, R., Vignoli, M., and Zyontz, S. (2021). Experimenting with Open Innovation in Science (OIS) practices: A novel approach to co-developing research proposals. *CERN IdeaSquare Journal of Experimental Innovation, 5*(2), 28-49. https://doi.org/10.23726/cij.2021.1328

Ostermann, O.F., Kloetzer, L., Ponti, M., Schade, S. (eds) (2021) Special Issue: Crowd AI for Good. *Human Computation*, 8(2). https://hcjournal.org/index.php/jhc

Ponti, M., Kloetzer, L., Miller, G., Ostermann, F. O., & Schade, S. (2021). Can't we all just get along? Citizen scientists interacting with algorithms. *Human Computation*, *8*(2), 5-14. https://doi.org/10.15346/hc.v8i2.128

Micheli, M., Ponti, M. Craglia, M., & Suman Berti, A. (2020). Emerging models of data governance in the age of datafication. *Big Data & Society*. https://journals.sagepub.com/doi/full/10.1177/2053951720948087

Beck, S., Bergenholtz, C., Bogers, M., [and 44 others, including **Ponti, M.**]. (2020). The open innovation in science research field: a collaborative mapping approach. *Industry and Innovation,* Special Issue on Open Innovation in Science. Taylor & Francis Online. https://doi.org/10.1080/13662716.2020.1792274

Díaz, C., Ponti, M., Haikka, P., Basaiawmoit, R., & Sherson, J. (2020). More than data gatherers: exploring player experience in a citizen science game. *Quality and User Experience, 5*(1).

Vohland, K., Sauermann, H., Antoniou, V., Balazs, B., Göbel, C., Karatzas, K., Mooney, P., Perelló, J., Ponti, M., Samson, R., & Winter, S. (2020). Citizen science and sustainability transitions*. Research Policy, 49*(5).

Skarlatidou, A., Ponti, M., Sprinks, J., Haklay, M., Nold, C., & Kanjo, E. (Eds.). (2019). Guest Editorial on Special Issue: User Experience of Digital Technologies in Citizen Science. *Journal of Science Communication* 18(01). https://jcom.sissa.it/archive/18/01/JCOM_1801_2019_E

Ponti, M., Hillman, T., Kullenberg, C. & Kasperowski, D. (2018). Getting it Right or Being Top Rank: Games in Citizen Science. *Citizen Science: Theory and Practice*, 3(1): 1, pp. 1–12, DOI: https://doi.org/10.5334/cstp.101

Ponti, M., Stankovic, I., Barendregt, W., Kestemont, B., & Bain, L. (2018). Chefs Know More than Just Recipes: Professional Vision in a Citizen Science Game. *Human Computation*, 5:1:1-12, DOI: 10.15346/hc.v5i1.1

Hecker, S., Bonney, R., Hacklay, M., [and 17 others, including Ponti, M.]. (2018). Innovation in citizen science – Perspectives and recommendations. *Citizen Science: Theory and Practice, 3* (1): p. 4. DOI: http://doi.org/10.5334/cstp.114

Ponti, M. (2015). "Remember to hand out medals": Peer rating and expertise in a question-and-answer study group. *International Review of Research in Open and Distributed Learning (IRRODL)*, *16*(2), online.

Andersen, R. & Ponti, M. (2014). Participatory pedagogy in an open educational course: Challenges and opportunities. Special Issue on Massively Open Online Courses (MOOCs), *Distance Education*, pp. 234-249. DOI:10.1080/01587919.2014.917703.

Ponti, M. (2013). Self-directed learning and guidance in non-formal open courses. *Learning, Media and Technology*, *39*(2), pp. 154-168. DOI:10.1080/17439884.2013.799073.

Ponti, M. (2013). Peer-production for collaboration between academics and practitioners. *Journal of Librarianship & Information Science, 45*(1), pp. 23-37.

Ponti, M. (2012). Uncovering Causality in Narratives of Collaboration: Actor-Network Theory and Event Structure Analysis [42 paragraphs]. *Forum Qualitative Sozialforschung / Forum: Qualitative Social Research*, *13*(1), Art. 11.

Ponti, M. (2011). Sociotechnical relations in the creation of an interest-driven open course. *E-learning and Digital Media*, *8*(4), pp. 408-422. ISSN 2042-7530.

Ponti, M. (2010). Sociotechnical influences on virtual research environments. *International Journal of e-Collaboration* (IJeC)*, 6*(2), Part II of Special Issue on Collaborative Working Environments, pp. 33-44. ISSN: 1548-3673.

Fruchter, R., & Ponti, M. (2010). Distributing attention across multiple social worlds. *AI & Society: Journal of Knowledge, Culture and Communication, 25*(2), pp. 169-181. ISSN: 0951-5666.

Sonnenwald, D.H., Lassi, M., Olson, N., *Ponti M.,* & Axelsson, A-S (2009). Exploring new ways of working using virtual research environments in library and information science. *Library Hi Tech*, vol. 27, no. 2, pp. 191-204. Special Issue on Virtual Research Environments: Issues and Opportunities for Librarians. ISSN: 0737-8831.

10.2   Edited books and chapters in edited books

Brovelli, M.A., Ponti, M., Schade, S., & Solis, P. (2020). Citizen Science in Support of Digital Earth. In Guo, H. D., Goodchild, M. F., and Annoni, A. (Eds.), *Manual of Digital Earth* (pp. 593-622). Springer Verlag: Singapore.

Franzen, M., Kloetzer, L., Ponti, M., Trojan, J., and Vicens, J. (2021). Machine learning in citizen science: promises and implications. In Vohland, K., Land, A., Ceccaroni, L., Perreló, J., Ponti, M., Samson, R., Wagenknecht, K., and Lemmens, R. (Eds). (2021). *The Science of Citizen Science.* Final Book of the COST Action CA15212. Open access publication. Springer Nature: Switzerland.

Vohland, K., Land, A., Ceccaroni, L., Perreló, J., Ponti, M., Samson, R., Wagenknecht, K., and Lemmens, R. (Eds) (2021). *The Science of Citizen Science.* Final Book of the COST Action CA15212. Springer Nature: Switzerland.

Ponti, M., Bergquist, M., & Ossiannilsson, E. (2014). Learning across sites through learning by design in use. In Littlejohn, A. and Pegler, C. (Eds.), *Reusing Open Resources: Learning Using Networked Resources* (pp. 127-137). London: Routledge.

Ponti, M., Renzi, S. & Klobas, J. (2012). A wiki for informal learning among social workers in a local health authority. In Bocconi, S. & Trentin, G. (Eds.), *Wikis Supporting Formal and Informal Learning*, pp. 199-219. Hauppauge, NY: Nova Science Publishers. ISBN: 978-1-61324-849-2.

10.3   Non-refereed articles

Ponti, M. (2008). A LIS collaboratory to bridge the research-practice gap. *Library Management,* vol. 29, no. 4/5, pp. 265-277. ISSN: 0143-5124 [SCOPUS]. Highly Commended Award Winner at the Emerald Literati Network Awards for Excellence.

10.4   Preprints

Semenov, A., Zhang, Y., Ponti, M. (2022). *Who will stay? Using Deep Learning to predict engagement of citizen scientists*. https://doi.org/10.48550/arXiv.2204.14046

Stankovic, I., Camps, M. P., Sánchez, D. C., Oroz, M. A. L.-., & Ponti, M. (2017, August 26). Performance of Players and Data Quality in a Citizen Science Casual Game. Retrieved from osf.io/preprints/socarxiv/vztxn

10.5   Workshops and other events organized

Berti Suman, A., Heyen, N., Ponti, M., & Schade, S. (2022). *Rethinking public services provision: citizen science to support public and environmental health services*. Interactive session at the 4th European Citizen Science Association Conference, October 5-9, Berlin (Refereed abstract). https://2022.ecsa-conference.eu/files/ecsa/Bilder/ECSA2022_Conference_Proceedings.pdf

Kloetzer, L., Ostermann, F., Ponti, M., & Schade, S. (2020). *Citizen Scientists Interacting with Algorithms: The Good and the Bad.* Interactive session at the 3rd European Citizen Science Association Conference, September 6-10, 2020, Trieste, Italy (Refereed abstract).

Lowe, R. & Ponti, M. (2020). *Artificial Intelligence, Affective Computing and Games: Healthcare, Learning and Adaptive Interaction*. May 11-12, 2020. Funded by the Swedish Research Council. Co-chair and Member of the Scientific Committee.

Schade, S., Ponti, M., & Capineri, C. (2019). *Training School on Digital Transformation, Citizen Science and Social Innovation*. January 21-25, 2019, Fiesole, Italy. Co-funded by the EU Joint Research Centre and the COST Action 15212. Co-organizer and facilitator.

Kloetzer, L., Ponti, M., Schade, S., Gomez, E., & Charisi, V. (2019). *Exploring the Interplay between Human Learning and Machine Learning - The Citizen Science Perspective.* April, 11-12, 2019. EU Joint Research Centre Sevilla, Spain. Workshop funded by the COST Action 15212. Co-organizer.

Ponti, M., & Schade, S. (2018). *Citizen science and social innovation.* Dialogue session at the 2nd European Citizen Science Association Conference, June 2-5, 2018, Geneva, Switzerland (Refereed abstract).

Ponti, M., Cox, A.L., & Bowser, A.E. (2016). *Gaming for good: Exploring the potential and pitfalls of citizen science games*. Workshop organized at the 1st European Citizen Science Association Conference, May 19-21, Berlin, Germany (Refereed workshop).

Ponti, M., Hagen, N., Hillman, T., Kasperowski, D., Kullenberg, D., & Stankovic, I. (2015). Designing Futures for Learning in the Crowd: New Challenges and Opportunities for CSCL. Workshop extended abstract – peer reviewed. In Lindwall, O., Häkkinen, P., Koschman, T. Tchounikine, P. & Ludvigsen, S. (Eds.) (2015). *Exploring the Material Conditions of Learning: The Computer Supported Collaborative Learning (CSCL) Conference 2015*, Vol. 2 pp. 885-888. The International Society of the Learning Sciences, Gothenburg, Sweden (Refereed workshop).

10.6   Official reports and working papers (internally refereed)

Craglia, M., Scholten, H.J., Micheli, M., Hradec, J., Calzada Mugica, I., Luitjens, S., Ponti, M. and Boter, J. (2021). *Digitranscope: The governance of digitally-transformed society.* EUR 30590 EN, Publications Office of the European Union, Luxembourg. Doi:10.2760/503546 (online), JRC123362.

Ponti M., & Craglia M. (2020). *Citizen-generated data for public policy*, European Commission, Ispra, 2020 JRC120231.

Micheli, M., Ponti, M., Luitjens, S., Scholten, H., & Craglia, M. (2019). *Connecting Policy Developers and Decision Makers with the Digitranscope Experiments*. Brief report of the Workshop, JRC Conference and Workshop Report. European Commission.

Ponti, M., Micheli, M., Scholten, H., & Craglia, M. (2019). *Internet of Things: Implications for Governance. 4th Workshop of the Digitranscope Project*. JRC Conference and Workshop Report. European Commission, 2019, JRC.

Micheli, M., Blakemore, M., Ponti, M. & Craglia, M. (2018). *The Governance of Data in a Digitally Transformed European Society. 2nd Workshop of the Digitranscope Project*. JRC Conference and Workshop Report. European Commission, 2018, JRC114711.

Ponti, M., Renzi, S. & Klobas, J. (2010). *A wiki for social workers in a local health authority: An actor-network analysis and seed design*. Dondena Working Paper No. 35. ISSN 2035-2034.

The Kaleidoscope Scientific Vision for Research in Technology Enhanced Learning (2007). Collective paper developed as a network-wide collaborative process (I am one of the 29 contributors). Position paper prepared for the European Commission, DG INFSO, under contract N°. IST 507838 as a deliverable for WP2.

Fruchter, R., & Ponti, M. (2006). The Fishbowl™: Degrees of Engagement in Global Teamwork. Final Report submitted to Wallenberg Global Learning Network II, September 2006.

Ponti, M., & Fulantelli, G. (2006). *Guidelines to the Design of the European Research Team (ERT) Shared Virtual Laboratory (vLab)*. European Research Team (ERT) on "Conditions for Productive Learning in Network Learning Environments", EU Framework 6 Network of Excellence Kaleidoscope. Prepared for the European Commission, DG INFSO, as a deliverable for WP 28.04.1.

Ponti, M. (Ed.) (2004). *Towards a conceptual framework for analyzing the sustainability of elearning networks in Small and Medium Enterprises*. ENSeL-Engaging Networks for Sustainable eLearning. Interim Report for Workstream 2. European Commission e-Learning Initiative, Grant Agreement number-2003-4731/001-001.

Ponti, M., & Lindström, B. (Eds.) (2004). *The theory and practice of computer supported collaborative learning*. EQUEL, Special Interest Group 6 Position Paper. European Commission e-Learning Initiative. Prepared for the European Commission, Directorate-General for Education and Culture, as a deliverable for WP9 15-05-2004.

Ponti, M., Lindström, B., Dirckinck-Holmfeld, L. & Moeller Svendsen, B. (2004). *Report on the conceptualization of typical case studies*. Jointly Executed Integrating Research Project (JEIRP) on "Conditions for Productive Learning in Network Learning Environments", EU Framework 6 Network of Excellence Kaleidoscope. Prepared for the European Commission, DG INFSO, as a deliverable for WP24.2.1.

Vigmo, S., Muehlenbrock, M., & Ponti. M. (2004). *CSCL in iClass*. Intelligent Distributed Cognitive-based Open Learning System for Schools (iClass) Project. Prepared as a deliverable for WP1, Task 1.4.

Dirckinck-Holmfeld, L., Moeller Svendsen, B., Lindström, B., & Ponti, M. (2004). *Theoretical framework on selected core issues on conditions for productive learning in network learning environments.* Jointly Executed Integrating Research Project (JEIRP) on "Conditions for Productive Learning in Network Learning Environments", EU Framework 6 Network of Excellence Kaleidoscope. Prepared for the European Commission, DG INFSO, as a deliverable for WP24.3.1.

Ponti, M., Lindström, B., & Dirckinck-Holmfeld, L. (2004). *Report on the shared design of action and implementation plan*. Jointly Executed Integrating Research Project (JEIRP) on "Conditions for Productive Learning in Network Learning Environments", EU Framework 6 Network of Excellence Kaleidoscope. Prepared for the European Commission, DG INFSO, as a deliverable for WP24.

10.7 Refereed papers in archival conference proceedings

Ponti, M., Hillman, T., & Stankovic, I. (2015). *Science and gamification: The odd couple?* In CHI PLAY '15 Proceedings of the 2015 Annual Symposium on Computer-Human Interaction in Play (pp. 679-684). London, UK, 5-7 October 2015. ACM 978-1-4503-3466-2/15/10. DOI 10.1145/2793107.2810293.

Ponti, M. (2014). "*Remember to hand out medals": Value and peer rating in an online open study group*. In Bayne, S., Jones, C., de Laat, M., Ryberg, T., & Sinclair, C. (Eds), *Online Proceedings of the 9th International Conference on Networked Learning* (pp. 228-235). April 7-9, 2014, Edinburgh, Scotland.

Ponti, M. (2014). Hei Mookie! Where do I start? The role of artifacts in an unmanned MOOC. *Proceedings of the 47th Annual Hawaii International Conference on Systems Sciences (HICSS-47),* (pp. 1625-1634). January 6-9, 2014. IEEE Computer Society Press.

Corneli, J., & Ponti, M. (2012). Detecting mathematics learning online. In Hodgson, V., Jones, C., de Laat, M., McConnell, D., Ryberg, T., & Sloep, P. (Eds.). *Online Proceedings of the 8th International Conference on Networked Learning*, April 2-4, 2012, Open University in The Netherlands, Maastricht.

Ponti, M., & Sonnenwald, D. H. (2008). *Investigating the Potential Uptake of e-Research within a Social Science Discipline: Socio-technical Issues within Library & Information Science*. Online Proceedings of the 4th International Conference on e-Social Science, Manchester, UK.

Ponti, M., & Hodgson, V. (2006). Networked Management Learning for Managers of Small and Medium Enterprises. In Banks, S., Hodgson, V., Jones, C., Kemp, B., McConnell, D. & Smith, C. (Eds.). *Proceedings of the Fifth International Conference on Networked Learning 2006.* Organized by Lancaster University, Lancaster, UK.

Esnault, L., Ponti, M., & Zeiliger, R (2005). Constructing knowledge as a system of relations. In Khosrow-Pour, M. (Ed.). *Managing Modern Organizations with Information Technology*. Information Resources Management Association (IRMA) 2005 Conference Proceedings. Hershey, PA: IRM Press.

Ponti, M., & Ryberg, T. (2004). Rethinking virtual space as a *place* for socialisation: Theory and design implications. In Banks, S., Goodyear, P., Hodgson, V., Jones, C., Lally, V., McConnell, D. & Steeples, C. (Eds.). *Proceedings of the Fourth International Conference on Networked Learning 2004* (pp. 332-339). Jointly organized by Lancaster University and the University of Sheffield. Lancaster University, Lancaster, UK.

Cousin, G., Deepwell, F., Land, R., & Ponti, M. (2004). Theorising implementation: Variation and commonality in European approaches to e-learning. In Banks, S., Goodyear, P., Hodgson, V., Jones, C., Lally, V., McConnell, D. & Steeples, C. (Eds.). *Proceedings of the Fourth International Conference on Networked Learning 2004* (pp. 136-143). Jointly organized by Lancaster University and the University of Sheffield. Lancaster University, Lancaster, UK.

10.8 Refereed abstracts, posters, non-archival conference presentations, and workshop papers

Ponti, M., and Kasperowski, D. (2022). *Oscillating ontological politics in citizen science.* Abstract accepted to the panel on Data, Algorithms, Absence, and Alterity. European Association for the Study of Science and Technology (EASST) 2022, Madrid.

Utterberg Modén, M., Lundin, J., Tallvid, M., and Ponti, M. (2022). Involving teachers in meta-design of AI to ensure situated fairness. Presented at *CoPDA 2022 – 6th International Workshop on Cultures of Participation in the Digital Age: AI for Humans or Humans for AI?* June 7, 2022, Frascati (Rome), Italy. In conjunction with AVI 2022. Included in Barricelli, B.R. *et al* (eds) CEUR Workshop Proceedings, pp. 36-42.

Utterberg Modén, M., Ponti, M., Lundin, J., and Tallvid, M. (2022). Let's make fairness concrete: contextualizing fairness for machine learning in Swedish education. Abstract accepted at the *(Un)fairness of Artificial Intelligence Workshop* hosted by the Humane-AI, University of Amsterdam, October 27th and 28th, 2022.

Ponti, M., Skarpeti, A., and Kestemont, B. (2022). *AI and Citizen Science for Serendipity*. Paper accepted to the Open Innovation in Science (OIS) Research Conference, CERN IdeaSquare, May 11-13, 2022, Geneva.

Castell, N., Grossberndt, S., Lissandrello, E., Steffansen, R., Morelli, N., Lindén, J., Segura Roux, M., Ekman, K., Ponti, M., and Broberg, A. (2020)**.** *Engaging citizens in improving air quality and designing healthy and people-centred cities. The NordicPATH project in Scandinavia*. Presented at the Citizen Science-SDG Conference, 14-15 October 2020, Berlin, Germany (hybrid conference).

Ekman, K., Ponti, M., Lindén, J., Segura Roux, M., Castell, N., Grossberndt, S., Lissandrello, E., Steffansen, R., Morelli, N., and Broberg, A. (2020). *The NordicPATH project in Scandinavia - exploring best practices in citizen engagement using Urban Living Labs.* Abstract presented at the Act Sustainable Research Conference. Chalmers University of Technology and the University of Gothenburg, 19 November 2020. Gothenburg, Sweden (online conference).

Ponti, M., Hillman, T., Kasperowski, D., & Kullenberg, C. (2017). *Getting it Right or Being Top Rank: Games in Citizen Science*. Presented at the Citizen Science Conference – CSA 2017, May 17-20, 2017, St. Paul, MN, USA.

Ponti, M., & Stankovic, I. (2015). Scripts in a gamified crowdsourcing approach to do science. Short paper for the workshop on "Examining the Essence of the Crowds: Motivations, Roles

and Identities" at the *European Conference on Computer-Supported Cooperative Work – ECSCW*, September 19-23, 2015, Oslo, Norway.

Ponti, M. (2015). *Potential of digital technologies to enhance openness in learning and science.* Invited speaker to the Symposium "Science-society dialogue – From citizen science to co-design" at ICCB: 27th International Congress for Conservation Biology, 4th European Congress for Conservation Biology, August 2-6, Montpellier, France.

Hetland, P., Mørch, A., & Ponti, M. (2014). *Researching citizen science by adopting ideas from end-user development: On user roles, expertise, and scaffolding.* Presented at the 2nd International Workshop on Cultures of Participation in the Digital Age: Social Computing for Working, Learning, and Living, May 27, 2014, Como, Italy. In conjunction with AVI 2014.

Ponti, M. *Self-directed learning and guidance in non-formal open courses.* Abstract accepted for presentation at the Next Generation Learning Conference 2014, March 19-20, Falun, Sweden.

Ponti, M. (2013). *Repurposing OER through learning by design in use.* Presented at the 10th Annual Open Education Conference, November 6-8, 2013, Park City, Utah.

Ponti, M. (2012). *Meta-design to experiment with the adaptation of OER.* Presented at NordiCHI 2012, Workshop on Collaborative Learning as Design Activity. November 2012, Copenhagen, Denmark.

Ponti, M. (2012). *Who needs guidance? Implications of open educational resources for the role of the academic teacher.* Key note address at the 7th International EcoMedia Europe Conference, Socrates-Comenius Network co-financed by the European Commission, May 27-30, 2012, Sintra, Portugal.

Arguello, M., Ponti, M., Russell, C., Ekin, P., Halfpenny, P., Fraser, M., Procter, R., Hanganu, G., Poschen, M., Voss, A., & Jirotka, M. (2009). *Case study research about the use of e-infrastructure and ICTs.* Poster presentation. In Proceedings of the 5th International Conference on e-Social Science, Cologne, Germany, 24th - 26th June 2009.

Fruchter, R., & Ponti, M. (2008). *Distributing attention across multiple social worlds.* Presented at the 7th International Workshop on Social Intelligence Design (SID2008), 3-5 December, 2008, Universidad de Puerto Rico, San Juan, PR.

Ponti, M., & Sonnenwald, D. H. (2008). *Translating Interests in Collaboration: Library Services and Patient Care.* Presented at the Annual Meeting of the Society for Social Studies of Science (4S), August 20-23, 2008, Rotterdam, The Netherlands.

Fruchter, R., Ponti, M., Jungbecker, A., & Alfen, H. W. (2007). *A scalable working model for cross-disciplinary global teamwork education.* CIB 24th W78 conference, Maribor, Slovenia.

Ponti, M. (2005). *Methodological issues about the empirical study of place-identity.* 9th European Conference on Computer-Supported Cooperative Work, Position Paper and Poster presentation at the Workshop: Settings for Collaboration – The Role of Place, Paris, France, 18-22 September, 2005.

Ponti, M., & Ryberg, T. (2005). *Place-making and sociability in networked environments - a condition for productive learning environments.* Presented at CAL'05 Virtual Learning, 4-6 April, Bristol University, UK.

Ponti, M., Lippi, P. & Ferrazzuolo, S. (2005). The ENSeL project. Poster presentation. In Chiazzese, G., Chifari, A., Ottaviano, S., & Allegra, M. (eds). *Methods and Technologies for Learning. Proceedings of the Second International Conference*. Wit Transactions on Information and Communication Technologies, vol. 34, pp. 625-627. Wit Press: Great Britain.

Ponti, M., Dirckinck-Holmfeld, L., Lindström, B., & Møller Svendsen, B. (2004). *Conditions for productive learning in network learning environments.* Presented at the CSCL Special Interest Group Symposium in Kaleidoscope, EPFL, Lausanne, Switzerland, 7-9 October.

Ryberg, T., & Ponti, M. (2004). *Constructing place: The relationship between place-making and sociability in networked environments - a condition for productive learning environments*. Presented at the CSCL Special Interest Group Symposium in Kaleidoscope, EPFL, Lausanne, Switzerland, 7-9 October.

10.9 Doctoral dissertation

Ponti, M. (2010). *Actors in collaboration: Sociotechnical influence on practice-research collaboration*. Valfrid Series n. 43 Borås, Sweden: Valfrid. ISBN: 978-91-89416-24-6.

11. Participation in research projects until 2012

2011-2012. *ScandLE ("Teaching problem-based learning in virtual environments")/Funded by NordForsk.*

2005-2006. *The Fishbowl: Degrees of Engagement in Global Teamwork/Funded by Wallenberg Global Learning Network*. Worked in close collaboration with Dr. Renate Fruchter at Stanford University, Department of Civil Engineering.

2006. *IST-Kaleidoscope, Special Interest Group on Computer Supported Collaborative Learning (CSCL)/ funded by the EU within the 6th Framework*.

2004 – 2005. *Engaging Networks for Sustainable European eLearning (ENSeL)/Funded under the eLearning Programme*

2004 – 2005. *Network of Excellence Kaleidoscope/Jointly Executed Integrating Research Project (JEIRP) and European Research Team (ERT) on "Conditions for Productive Learning in Networked Learning Environments"/Funded under the 6th Framework Programme.* Authored workpackage deliverables and organized general team meetings.

2003 – 2004. *E-quality for e-learning (EQUEL). A European Laboratory for Researching and Developing the Practice of E-Learning in Higher Education across Europe/Funded under the eLearning Programme.*

2003 – 2004. *Pedagogical Psychology Computer Assisted Assessment System to Support Initial and Lifelong Teacher Training (PePCAA)/Funded under the Minerva Programme*. Participated in assessment development and internal pre-testing.

12. Non-academic professional employment

Feb. 2002 – Jan. 2003. Senior Information Scientist at Research & Development, Global Information Network (GIN), Pharmacia (today, Nerviano Medical Sciences), Nerviano, Italy.

Sept. 1998 – Nov. 1999. Information manager, Authority for Electricity and Gas (government agency), Milan, Italy.

May 1993 – Aug. 1998. Information officer, Italian Competition Authority (government agency), Rome, Italy.

Dec. 1989 – Apr. 1993. Editor at Eidos (Co-operative Enterprise), Modena, Italy.

Jan.1984 – Nov. 1988. Programme researcher at Nippon Television Network Corp., Rome Bureau, Italy.