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Research

Introduction

Per-Olof Hedvall works as Director of Certec, Department of Design Sciences, Lund University, Sweden. His research deals with accessibility, participation, and universal design, with a particular interest in the interplay between people and technology. Working closely with the disability movement, he focuses on people's lived perspectives and how human and artefactual aspects of products, services, and environments can be designed to support people in fulfilling their needs, wishes, and dreams. Hedvall has a background in computer engineering and has a particular interest in people's empowerment and opportunities for participation in their lives.
Per-Olof Hedvall often bases his work on Cultural-Historical Activity Theory. In 2009, Hedvall defended his doctoral dissertation in Rehabilitation Engineering and Design, "The Activity Diamond – Modelling an Enhanced Accessibility", where he developed a model for planned, lived, and long-term aspects of accessibility, as a prerequisite for participation.

Current research focus: Universal Design, Equity and Categorisation

For the past 10 years, I have mainly concentrated on trying to contribute to the development and emergence of universal design in Sweden and internationally. I am interested in how it is possible to create designs that do not discriminate against people and that do not lead to inequality and stigma.
My current research is about categorisation and how categorisation creates similarities and differences between people. The design of products and environments often places people in compartments such as "man", "woman", "person with a disability", "person without a disability", "children", "elderly", and so on. I think it is interesting how categorisation takes place and what stories it creates/enables.
There is a strong force in design, which can be used to open up opportunities, but also to close them. Sometimes exclusionary design takes place completely intentionally, as in the introduction of reclining benches on which it is impossible to sleep, but in most cases, exclusion takes place unintentionally. Therefore, it is important to actively work with knowledge and awareness of socially sustainable design that brings people together and enriches society.
On a more general level, I am interested in who may and may not exist in today's society and how it is possible to create conditions so that all people can participate in and contribute to society. The stories we tell about each other when designing influence the stories about:
Who you can be
and who you can become.
I also have a personal website where I write about things that are on my mind and share photos, images and other material. Read more at: https://www.peohedvall.com/.

Employment

Senior lecturer

Certec - Rehabilitation Engineering and Design
Lund University

Lund, Sweden
2006 Jan 16 → present

CIRCLE
Lund University
Lund, Sweden
2023 Nov 16 → present

Senior lecturer
Ergonomics and Aerosol Technology
Lund University
Lund, Sweden
2024 Feb 28 → present

Guest researcher
Mid Sweden University
Sundsvall, Sweden
2018 Jan 1 → present

Research outputs

1. **Gendered Sustainability: Are Public Spaces Designed for Girls Good for Everyone? Examining Female Participation as a Strategy for Inclusive Public Space**
   Sandström, I., Ericsson, S. & Hedvall, P-O., 2024 Mar 15, In: Cities. 149, 104906.
   Research output: Contribution to journal › Article › peer-review
2. Activism online: exploring how crises are communicated visually in activism campaigns
   Fagerholm, A-S., Göransson, K., Thompson, L. M. & Hedvall, P-O., 2023, In: Journal of Contingencies and Crisis Management. 31, 4, p. 1034-1043 10 p.
   Research output: Contribution to journal › Article › peer-review
3. **Co-designing with extreme users: a framework for user participation in design processes**
   Johansson, S., Hedvall, P. O., Larsdotter, M., Larsson, T. P. & Gustavsson, C., 2023 Dec 14, In: Scandinavian Journal of Disability Research. 25, 1, p. 418-430 13 p.
   Research output: Contribution to journal › Article › peer-review
4. **What a waste – A norm-critical design study on how waste is understood and managed**
   Fagerholm, A. S., Haller, H., Warell, A. & Hedvall, P. O., 2023 Nov, In: Resources, Conservation and Recycling Advances. 19, 200178.
   Research output: Contribution to journal › Article › peer-review
5. **Framväxten av universell utformning – en kulturomdaning**
   Hedvall, P-O., 2022 Jan 20, *Kunskap för framgångsrik inkludering.* Lärandeforum UUA, p. 8-15 8 p.
   Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research
6. **Let's move beyond word battles and separatism: Strategies and concerns regarding Universal Design in Sweden**
   Erdtman, E., Rassmus-Gröhn, K. & Hedvall, P-O., 2022 Mar 28, In: Equality, Diversity and Inclusion. 41, 9, p. 15-29
   Research output: Contribution to journal › Article › peer-review
7. **Moving Beyond Human Bodies on Display: Signs of a Shift in Categorisation**
   Hedvall, P-O., Johansson, S. & Ericsson, S., 2022 Dec 2, *DAI - Il Disegno per l'Accessibilità e l'Inclusione.* Milano: Publica, p. 48-59 12 p.
   Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
8. **Planning for human diversity: design patterns of Universal Design**
   Müller, L., Wojahn, D., Sandström, I. & Hedvall, P-O., 2022 Dec 28, In: Nordic Journal of Architectural Research. 34, 2, p. 75-104 29 p.
   Research output: Contribution to journal › Article › peer-review
9. **The struggle for access: a qualitative document study of how people using wheeled mobility devices experience exclusion and discrimination**
   Pettersson, C., Baudin, K. & Hedvall, P-O., 2022 Aug 5, (E-pub ahead of print) In: Disability and rehabilitation. Assistive technology. 9 p.
   Research output: Contribution to journal › Article › peer-review

10. **Tillgänglighet, användbarhet och universell utformning**
Hedvall, P-O., Ståhl, A. & Iwarsson, S., 2022 Aug 18, *Participation: vad, när, hur.* Denvall, V. & Iwarsson, S. (eds.). 1 ed. Lund: Studentlitteratur AB, p. 151-182 31 p.
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

11. **Towards 3rd generation universal design: exploring nonclusive design**
Hedvall, P-O., Price, M., Keller, J. & Ericsson, S., 2022 Sept 2, In: Studies in Health Technology and Informatics. 297, p. 85-92 8 p.
Research output: Contribution to journal › Article › peer-review

12. **Visions of a City for All: Resources, Choices and Factors Supporting and Impeding Universal Design in the Urban Development Process**
Müller, L., Ericsson, S. & Hedvall, P-O., 2022 Jun 27, In: The Journal of Public Space. 7, 2, p. 63-78 16 p.
Research output: Contribution to journal › Article › peer-review

13. What a Waste: a norm-critical study on how waste is understood and managed through integrating perspectives
Fagerholm, A-S., Göransson, K., Haller, H. & Hedvall, P-O., 2022, p. 252-253.
Research output: Contribution to conference › Abstract › peer-review

14. **Categorisations Impeding and Supporting Universal Design**
Hedvall, P-O., Wojahn, D., Müller, L. & Ericsson, S., 2021.
Research output: Contribution to conference › Abstract › peer-review

15. **Feeling controlled or being in control? Apps for self-management among older people with neurological disability**
Winberg, C., Kylberg, M., Pettersson, C., Harnett, T., Hedvall, P-O., Mattsson, T. & Månsson Lexell, E., 2021, In: Disability and Rehabilitation: Assistive Technology. 16, 6, p. 603-608 6 p.
Research output: Contribution to journal › Article › peer-review

16. **Introducing Norm Creative Perspectives in Engineering and Design Educations**
Hedvall, P-O. & Mattsson, P., 2021 Dec 9. 3 p.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

17. **The dis/ablement of bodies in semiotic landscapes – a citizen science approach**
Ericsson, S., Wojahn, D., Müller, L. & Hedvall, P-O., 2021.
Research output: Contribution to conference › Abstract › peer-review

18. **”Tur att jag inte blev omprövad i år”: samtal om ett villkorat liv med personlig assistans**
Egard, H. & Hedvall, P-O., 2021 May 6, In: Nordisk välfärdsforskning / Nordic Welfare Research. 6, 1, p. 20 31 p.
Research output: Contribution to journal › Article › peer-review

19. **Universal Design as Guiding, Striving and Unifying: A Qualitative Study About how Universal Design is understood, practiced and realised in contemporary Sweden**
Erdtman, E., Rassmus-Gröhn, K. & Hedvall, P-O., 2021 Jun 28, In: Scandinavian Journal of Disability Research. 23, 1, p. 158-168
Research output: Contribution to journal › Article › peer-review

20. **Young, Mobile, and Highly Educated Cyclists: How Urban Planning and Policy Dis/able Users**
Müller, L., Ericsson, S., Wojahn, D. & Hedvall, P-O., 2021 Apr 16, In: Scandinavian Journal of Disability Research. 23, 1, p. 124-135 12 p.
Research output: Contribution to journal › Article › peer-review

21. **Language that Supports Sustainable Development: How to Write about People in Universal Design Policy**
Ericsson, S., Wojahn, D., Sandström, I. & Hedvall, P-O., 2020 Nov 17, In: Sustainability. 12, 22, p. 1-20 20 p., 9561.
Research output: Contribution to journal › Article › peer-review

22. **Universell utformning – Hur designar vi ett samhälle för alla?**
Hedvall, P-O., 2020, *Med människan i fokus: En uppföljning av Politik för gestaltad livsmiljö 2020 och medskick inför framtida arbete.* ArkDes, p. 68-73 5 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter in Report › Popular science

23. **Dynamic multimodal drawing in school: Exploring technology support of drawing skills development in children with visual impairments**
Szymczak, D., Rassmus-Gröhn, K., Hedvall, P. O. & Magnusson, C., 2019, In: Technology and Disability. 31, 3, p. 83-99 17 p.
Research output: Contribution to journal › Article › peer-review

24. **Universell utformning – ett diskussionsunderlag**
Hedvall, P-O., 2019, *SOU 2019:23 Betänkande av Styrutredningen för funktionshinderspolitiken.* SOU (Sveriges Offentliga Utredningar), p. 287-300 13 p. (Statens Offentliga Utredningar : SOU; vol. 2019, no. 23).
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Popular science

25. **Bringing human diversity into design processes through empathic modelling**
Lorentzen, L. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education - Proceedings of Universal Design and Higher Education in Transformation Congress 2018.* Craddock, G., Doran, C., McNutt, L. & Rice, D. (eds.). IOS Press, p. 128-136 9 p. (Studies in Health Technology and Informatics; vol. 256).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

26. **Co-Constructing Universal Design in Citizen Science Workshops**
Hedvall, P. O., Rydeman, B., Granholm, S. & Andersson, M., 2018, *ransforming our World Through Design, Diversity and Education.* IOP Publishing, Vol. 256. p. 214-222 9 p. (Studies in Health Technology and Informatics).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

27. **Design for me?**
Magnusson, C., Hedvall, P. O. & Breidegard, B., 2018 Jan 1, *Computers Helping People with Special Needs - 16th International Conference, ICCHP 2018, Proceedings.* Springer, p. 93-99 7 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10896 LNCS).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

28. **How can we make teaching more inclusive?**
Rydeman, B., Eftring, H. & Hedvall, P-O., 2018, *10:e Pedagogiska Inspirationskonferensen.* Lund University, (Pedagogiska inspirationskonferensen LTH; vol. 10).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

29. **Recognizing diversity within everyone's lived experience: Strengthening the theoretical foundations of Universal Design**
Hedvall, P-O., McArthur, J. & Cranmer, S., 2018, p. 104-105.
Research output: Contribution to conference › Abstract › peer-review

30. **Stroke and universal design**
Magnusson, C., Anastassova, M., Paneels, S., Rassmus-Gröhn, K., Rydeman, B., Randall, G., Ortiz Fernandez, L., Bouilland, S., Pager, J. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education - Proceedings of Universal Design and Higher Education in Transformation Congress 2018.* Craddock, G., Doran, C., McNutt, L. & Rice, D. (eds.). IOS Press, p. 854-861 8 p. (Studies in Health Technology and Informatics; vol. 256).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

31. **Towards a More Inclusive University - Supporting Teachers Through Universal Design for Learning**
Rydeman, B., Eftring, H. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education.* IOP Publishing, Vol. 256. p. 98-106 9 p. (Studies in Health Technology and Informatics).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

32. **Co-designing together with persons with visual impairments**
Magnusson, C., Hedvall, P. O. & Caltenco, H., 2017 Aug 20, *Mobility of Visually Impaired People: Fundamentals and ICT Assistive Technologies.* Springer International Publishing, p. 411-434 24 p.
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

33. **Delaktighetsforskning och funktionshinder: Kartläggning av kunskapsläge och forskningsbehov med särskilt fokus på teknik- och designperspektiv**
Hedvall, P-O., 2017 Sept 4, 23 ed. http://www.mfd.se/stod-och-verktyg/publikationer/rapporter/rapporter-2017/delaktighetsforskning-och-funktionshinder/: Myndigheten för Delaktighet. 130 p.
Research output: Book/Report › Report › Research

34. **The Use of Apps for Health in Persons with Multiple Sclerosis, Parkinson's Disease and Stroke - Barriers and Facilitators**
Winberg, C., Kylberg, M., Pettersson, C., Harnett, T., Hedvall, P. O., Mattsson, T. & Månsson Lexell, E., 2017, *Harnessing the Power of Technology to Improve Lives.* IOS Press, Vol. 242. p. 638-641 4 p. (Studies in Health Technology and Informatics; vol. 242).
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

35. **Eliciting parents' individual requirements for an inclusive digital school system**
Eftring, H., Rassmus-Gröhn, K. & Hedvall, P. O., 2016, *Universal Design 2016: Learning from the Past, Designing for the Future - Proceedings of the 3rd International Conference on Universal Design, UD 2016.* IOS Press, Vol. 229. p. 211-221 11 p. (Studies in Health Technology and Informatics; vol. 229).
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

36. **Användarmedverkan – att delta i designprocesser**
Magnusson, C. & Hedvall, P-O., 2015, *Att arbeta med delaktighet inom habilitering.* Hansson, K. & Nordmark, E. (eds.). Studentlitteratur AB
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

37. **Att så vidare 25**
Hedvall, P-O. & Jönsson, B., 2015, Certec, Lund University. (Internrapport CERTEC, LTH; vol. 2015, no. 1)
Research output: Book/Report › Report › Popular science

38. **Demo Hour**
Fortmann, J., Müller, H., Heuten, W., Boll, S., Kangas, J., Akkil, D., Rantala, J., Isokoski, P., Majaranta, P., Raisamo, R., Orlov, P. A., Bednarik, R., Caltenco, H., Larsen, H. S. & Hedvall, P-O., 2015, In: Interactions. 22, 1, January + February 2015, p. 6-9
Research output: Contribution to journal › Article › peer-review

39. **Empowerment and participation through online photo diaries for children and adults with intellectual disabilities**
Rydeman, B. & Hedvall, P-O., 2015.
Research output: Contribution to conference › Abstract › peer-review

40. **Opportunities and challenges in everyday life - a participatory study exploring strategies used by three adults with ADHD**
Eklöf, L., Boman, I-L. & Hedvall, P-O., 2015.
Research output: Contribution to conference › Abstract › peer-review

41. **Technical aids and human assistance as integrated in the social construction of self**
Egard, H., Eklöf, L., Hedvall, P-O. & Rydeman, B., 2015.
Research output: Contribution to conference › Abstract › peer-review

42. **Towards motive- oriented technical and human assistance – a study of how combinations of technology and people support individuals in their lives**
Hedvall, P-O., Egard, H., Eklöf, L. & Rydeman, B., 2015.
Research output: Contribution to conference › Abstract › peer-review

43. **I Have Never Been Universal**
Hedvall, P-O., 2014, *Trends in Universal Design.*
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Popular science

44. **Shared experiences through online photo diaries**
Rydeman, B. & Hedvall, P-O., 2014.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

45. **Universal Design 2014: Three Days of Creativity and Diversity**
Caltenco, H. (ed.), Hedvall, P-O. (ed.), Larsson, A. (ed.), Rassmus-Gröhn, K. (ed.) & Rydeman, B. (ed.), 2014, IOS Press. (Assistive Technology Research Series)
Research output: Book/Report › Conference proceeding (editor) › peer-review

46. **Activity Perspectives on VOCA-Mediated Conversations**
Rydeman, B. & Hedvall, P-O., 2013, *Aided Communication in Everyday Interaction.* Norén, N., Samuelsson, C. & Plejert, C. (eds.). J&R Press
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

47. **Co-Exploring Everyday Life of Adults with ADHD**
Eklöf, L., Boman, I-L. & Hedvall, P-O., 2013, *Assistive Technology Research Series.* IOS Press, Vol. 33. p. 622-627 6 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

48. **Inclusion Through Design - Engaging Children with Disabilities in Development of Multi-Sensory Environments**
Hedvall, P-O., Larsen, H. S. & Caltenco, H., 2013, *Assistive Technology Research Series.* IOS Press, Vol. 33. p. 628-633 6 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

49. **Interaction and Mediation in Multi Sensory Environments**
Hedvall, P-O., Larsen, H. S. & Caltenco, H., 2013.
Research output: Contribution to conference › Abstract › peer-review

50. **Actors in AAC Activities**
Hedvall, P-O., 2012.
Research output: Contribution to conference › Abstract

51. **A Real-World Study of an Audio-Tactile Tourist Guide**
Szymczak, D., Rassmus-Gröhn, K., Magnusson, C. & Hedvall, P-O., 2012, *Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services.* Association for Computing Machinery (ACM), p. 335-344 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

52. **Bridging children's contexts with online photo diaries**
Rydeman, B. & Hedvall, P-O., 2012.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

53. **Bringing the Mobile Context into Industrial Design and Development**
Magnusson, C., Larsson, A., Warell, A., Eftring, H. & Hedvall, P-O., 2012, *NordiCHI 2012 Proceedings of the 7th Nordic Conference on Human-Computer Interaction: Making Sense Through Design.* Association for Computing Machinery (ACM), p. 149-152 4 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

54. **Demonstration of an Audio-tactile Tourist Guide**
Szymczak, D., Rassmus-Gröhn, K., Magnusson, C. & Hedvall, P-O., 2012, *MobileHCI '12 Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services companion.* Association for Computing Machinery (ACM), p. 151-152
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

55. **Enhancing Multisensory Environments with Design Artifacts for Tangible Interaction**
Caltenco, H., Larsen, H. S. & Hedvall, P-O., 2012, *International Workshop on Haptic and Audio Interaction Design.* p. 45-47 3 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

56. **Ideation and ability: When actions speak louder than words**
Larsen, H. S. & Hedvall, P-O., 2012, *ACM DL PDC '12 Proceedings of the 12th Participatory Design Conference: Exploratory Papers, Workshop Descriptions, Industry Cases.* Simonsen, J. & Halskov, K. (eds.). Association for Computing Machinery (ACM), Vol. Volume 2. p. 37-40 4 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

57. **Mobility and modality - perceptualization in situated activities**
Rydeman, B. & Hedvall, P-O., 2012.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

58. **Motivation, Peer Learning and Feedback in Flexible Learning**
Larsson, A., Rydeman, B. & Hedvall, P-O., 2012. 4 p.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

59. **Navigating the world and learning to like it - mobility training through a pervasive game**
Magnusson, C., Waern, A., Rassmus-Gröhn, K., Bjernryd, Å., Bernhardsson, H., Jakobsson, A., Salo, J., Wallon, M. & Hedvall, P-O., 2011, *Proceedings of the 13th International Conference on Human Computer Interaction with Mobile Devices and Services.* Association for Computing Machinery (ACM), p. 285-294 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

60. **A Cultural-Historical Design Approach to Augmentative and Alternative Communication**
Hedvall, P-O. & Rydeman, B., 2010.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

61. **An activity systemic approach to augmentative and alternative communication.**
Hedvall, P-O. & Rydeman, B., 2010, In: Augmentative and Alternative Communication: Aac. 26, 4, p. 230-241
Research output: Contribution to journal › Article › peer-review

62. **Aktivitetsdiamanten: Modellering av en vidareutvecklad tillgänglighet**
Hedvall, P-O., 2009 Dec 4, Lund University. 254 p.
Research output: Thesis › Doctoral Thesis (compilation)

63. **New Challenges for Participation in Participatory Design in Family, Clinical and Other Asymmetrical, Non-work Settings**
Olav, B. & Hedvall, P-O., 2009, *Lecture Notes in Computer Science.* Springer, Vol. 5727. p. 971-972 2 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

64. **The Activity Diamond - Modeling an Enhanced Accessibility**
Hedvall, P-O., 2009, 254 p.
Research output: Thesis › Doctoral Thesis (monograph)

65. **Towards the Era of Mixed Reality: Accessibility Meets Three Waves of HCI**
Hedvall, P-O., 2009, *HCI and Usability for E-Inclusion, Proceedings.* Springer, Vol. 5889. p. 264-278 15 p.
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

66. **Who is in Control? AAC seen through the FACE tool**
Rydeman, B. & Hedvall, P-O., 2008. 3 p.
Research output: Contribution to conference › Paper, not in proceeding › peer-review

67. **Xings for Augmented Family Communication**
Hedvall, P-O., 2008. 28 p.
Research output: Contribution to conference › Paper, not in proceeding

68. **Situerad design för alla - till improvisationens lov**
Hedvall, P-O., 2007, 184 p.
Research output: Thesis › Licentiate Thesis

69. Computer games as life quality for disabled players
Ferreira, J. & Hedvall, P-O., 2006.
Research output: Contribution to conference › Paper, not in proceeding › peer-review