
Vita (Abbreviated)

Eli Blevis, PhD

Professor of Informatics

(Full Rank, Tenured)

Luddy School of Informatics, Computing, & Engineering (Luddy)

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The Hong Kong Polytechnic University
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Research Interests

Design and Human-Computer Interaction (HCI): Sustainable Interaction Design; Visual Thinking and Digital Imagery; Design Theory and Transdisciplinary Design; Design Education, Scholarship of Teaching and Learning in Design.

Summary

Eli Blevis is Professor of Informatics in the Human-Computer Interaction Design (HCI/d) program of the Luddy School of Informatics, Computing, & Engineering (Luddy) at Indiana University, Bloomington (IUB). He has served as Director of the HCI/design MS and PhD program from 2011-2016 at IUB and from July 2020 to August 2021 (MS) and to August 2023 (PhD). He has also served as a Visiting & Adjunct Professor of Interaction Design at the Hong Kong Polytechnic University (PolyU) School of Design (SD), summers 2012-2019. His primary area of research, and the one for which he is best known, is sustainable interaction design. His research also engages visual thinking—especially photographic foundations of HCI, and design theory—especially transdisciplinary design.

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Education

- Doctor of Philosophy: Computing & Information Sciences, Queen's University at Kingston, Canada M.A. Jenkins, Advisor. Dissertation: A Computational approach to creative reasoning systems (1990)
- Master of Science: Computing & Information Sciences, Queen's University at Kingston, Canada M.A. Jenkins and J.I. Glasgow, Advisors. Thesis: Logic programming in NIAL (1986)
- Bachelor of Music: First Class Honors, Queen's University at Kingston, Canada (1982)

Professional Experience

- Director, Strategic Design and User Experience Design, UNext, LLC, Deerfield IL. Reported to Vice President Donald Norman (2000 to 2002)
- Consultant on retainer, Director of Advanced Technologies, SECURA Insurance Companies, Appleton WI. Reported to Vice President Scott Huiras (1994 to 2000)
- Consultant, Principal, Eastlake/Eastlake Technologies, LLC, Chicago IL (1994 to 2002)

Teaching & Research Experience

- Professor of Informatics, Human-Computer Interaction Design, Luddy, Indiana University (IU) at Bloomington, IN (2016 to present).
- Visiting & Adjunct Professor (annual), School of Design, The Hong Kong Polytechnic University (2012 to 2019).
- Director, Human-Computer Interaction Design Program, Luddy, IU (2011-2016), and AY 2020/21 (MS & PhD), AY 2021/22 (PhD)
- Adjunct Professor of Cognitive Science, Indiana University (IU) at Bloomington, IN (2016 to present).
- Associate Professor (with tenure), Human-Computer Interaction Design, Luddy, IU (2008 to 2016).
- Assistant Professor, Human-Computer Interaction Design, Luddy, IU (2002 to 2008).
- Adjunct Faculty, Institute of Design, IIT Chicago (2000 to 2002)
- Assistant Professor, Institute of Design, IIT Chicago (1995 to 2000) (Resigned to work at UNext)
- Research Faculty (Software Design/Engineering), The Institute for the Learning Sciences, Northwestern University, Evanston IL (1990 to 1994)
- Research Assistant, Adjunct Instructor, Queen's University at Kingston, Canada (1985 to 1990)

Selection of Single-Authored Publications by Theme

Sustainability

- [1] Eli Blevis. 2018. Seeing What Is and What Can Be: On Sustainability, Respect for Work, and Design for Respect. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '18)*. ACM, New York, NY, USA. [full paper, double-blind review, 4 reviews, acceptance rate = 25.1%, or 667/2657 submissions]
- [2] 🏆 Eli Blevis. 2007. **(Best Paper Award)**. Sustainable interaction design: invention & disposal, renewal & reuse. In *Proceedings of the SIGCHI conference on Human factors in computing systems (CHI '07)*. ACM, New York, NY, USA, 503-512. [full paper, double-blind review, 5 reviews, best paper rate = 1%, or 7/840 submissions]

Visual Thinking

- [3] Eli Blevis. 2016. Being Photo-Visual in HCI and Design. In *Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS '16)*. ACM, New York, NY, USA, 983-995. [full paper, double-blind review, 5 reviews, acceptance rate: 26%, 108/418]

- [4] Eli Blevis. 2016. The Visual Thinking Gallery: A Five-Year Retrospective. In *Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS '16)*. ACM, New York, NY, USA, 1096-1110. [pictorial full paper (archival), double-blind review, 4 reviews, acceptance rate: 26%, 13/49]

- [5] 🏆 Eli Blevis. 2014 **(Best Pictorial Award)**. Stillness and motion, meaning and form. In *Proceedings of the 2014 conference on Designing interactive systems (DIS '14)*. ACM, New York, NY, USA, 493-502. [pictorial full paper (archival), double-blind review, 4 reviews, acceptance rate: 18%, 10/56]

Design Education, Design Theory, Transdisciplinary Design

- [6] Eli Blevis. 2021. Three Key Competencies and Other Frameworks for HCI and Design Education. IU Scholarworks Report 2021-01-04. [learning resource, not reviewed]
- [7] Eli Blevis. 2012. The PRInCiPleS Design Framework. In John M. Carroll (ed.). *Human-Computer Interaction Series, 1, Volume 20, Creativity and Rationale*, Springer, Pages 143-169. [chapter, double-blind review, 2 reviews, 2 review rounds]

Selection of Collaborative Publications by Theme

Sustainability: Digital Infrastructure

- [8] ☞☞ Chris Preist, Daniel Schien, and Eli Blevis. 2016. (Best Paper Award, Selected for Computing Reviews 21st Annual Best of Computing Notable Books and Articles List). Understanding and Mitigating the Effects of Device and Cloud Service Design Decisions on the Environmental Footprint of Digital Infrastructure. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI '16)*. ACM, New York, NY, USA, 1324-1337. [full paper, double-blind review, 5 reviews, best paper rate = 1%, or 23/2350 submissions]

Sustainability: Re-Conceptualizing Fashion for Good

- [9] Yue Pan, David Roedl, Eli Blevis, and John C. Thomas. 2015. Fashion Thinking: Fashion Practices and Sustainable Interaction Design. *International Journal of Design* 9(1), 53-66. [journal paper, double-blind review, 2 review rounds]

Sustainability: Adaptation to Collapse

- [10] Bill Tomlinson, Eli Blevis, Bonnie Nardi, Donald J. Patterson, M. SIX Silberman, and Yue Pan. 2013. Collapse informatics and practice: Theory, method, and design. *ACM Transactions on Computer Human Interaction* 20, 4, Article 24 (September 2013), 26 pages. [journal paper, single-blind review, 4 reviews, acceptance rate (special issue): 17%, 6/35]

- [11] ☞☞ Bill Tomlinson, M. Six Silberman, Donald Patterson, Yue Pan, and Eli Blevis. 2012. (Honorable Mention, CCC Sustainability Award). Collapse informatics: augmenting the sustainability & ICT4D discourse in HCI. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '12)*. ACM, New York, NY, USA, 655-664. [full paper, double-blind review, 4 reviews, honorable mention rate = 5%, acceptance rate: 23%, 370/1577]

Visual Thinking

- [12] Shunying An Blevis and Eli Blevis. 2022. Visible Mending. In *Nordic Human-Computer Interaction Conference (NordiCHI '22)*. Association for Computing Machinery, New York, NY, USA, Article 87, 1-13. <https://doi.org/10.1145/3546155.3547291> [pictorial full paper (archival), double-blind review, 3 reviews, acceptance rate (archival tracks): 29%]
- [13] Shunying An Blevis, Eli Blevis, and Bonnie Nardi. 2019. All the Tea in China: Interaction Design Inspirations. In *Proceedings of the 2019 on Creativity and Cognition (C&C '19)*. ACM, New York, NY, USA, 333-345. [pictorial full paper (archival), double-blind review, 4 reviews, acceptance rate: 31%, 5/16]
- [14] Eli Blevis and Shunying An Blevis. 2018. Design Inspirations from the Wisdom of Years. In *Proceedings of the 2018 Designing Interactive Systems Conference (DIS '18)*. ACM, New York, NY, USA, 719-732. [pictorial full paper (archival), double-blind review, 4 reviews, acceptance rate=25% 17/69]

Recent Publications (except SoTL)

Shunying An Blevis, Eli **Blevis** (Corresponding Author), Makayla Lewis, Miriam Sturdee. (Contributing Editors, Under Contract 2023, Imprint expected 2024/25). *Seeing Interaction Design*. Design Research Foundations Series (Ilpo Koskinen and Peter Gall Krogh Series Editors), Springer Nature Switzerland AG (Philosophy).

In the aforementioned, there are five chapters by Shunying An Blevis and Eli **Blevis**, namely (1) Sustainability (14 pages), (2) Seeing and Noticing (22 pages), (3) Pushing Boundaries (17 Pages), (4) Inspirations (18 pages), and (5) For Educators (12 pages). There is an Introduction chapter (in progress) by Shunying An Blevis, Eli **Blevis**, Makayla Lewis, Miriam Sturdee.

Shunying An Blevis, Maryam Heidaripour, Shaowen Bardzell, and Eli **Blevis**. 2023. Advancing Non-Linear Design Thinking. *Ninth Computing within Limits 2023. LIMITS*. <https://doi.org/10.21428/bf6fb269.0b621289>

Makayla Lewis, Miriam Sturdee, Josh Urban Davis, Mafalda Gamboa, Sarah Fdili Alaoui, Claire Elisabeth Ohlenschlager, William Gaver, Eli **Blevis**, and Lian Loke. 2023 (Panel). Is it Art, is it HCI? Exploring Tensions Between Practice and Research. In *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23)*. Association for Computing Machinery, New York, NY, USA, Article 525, 1–4. <https://doi.org/10.1145/3544549.3583744>

Shunying An Blevis and Eli **Blevis**. 2022. Visible Mending. In *Nordic Human-Computer Interaction Conference (NordiCHI '22)*. Association for Computing Machinery, New

York, NY, USA, Article 87, 1–13. <https://doi.org/10.1145/3546155.3547291>

Shunying An Blevis and Eli **Blevis**. 2022. Nonlinear design thinking: the limitations of awareness in the search for climate care. *interactions* 29, 1 (January - February 2022), 84–88. DOI: <https://doi.org/10.1145/3505632>

Oscar Lemus, Sergio Cruz, and Eli **Blevis**. 2022. Historical-Photo-Visual Practice: A Stroll Through Guatemala's Sixth Avenue, Then and Now. In: Bruyns, G., Wei, H. (eds) [] *With Design: Reinventing Design Modes. IASDR 2021*. Springer, Singapore. https://doi.org/10.1007/978-981-19-4472-7_9

Shunying An Blevis, and Eli **Blevis**. 2022. Only Tablet with Dark Hair (Pictorial). In: Bruyns, G., Wei, H. (eds) [] *With Design: Reinventing Design Modes. IASDR 2021*. Springer, Singapore. https://doi.org/10.1007/978-981-19-4472-7_101

Zaiqiao Ye, Zitao Zhang, and Eli **Blevis**. 2022. Inspiring capsule wardrobe practices using illustrated design fictions and role-playing. *interactions* 29, 5 (September - October 2022), 16–19. <https://doi.org/10.1145/3555690>

Zaiqiao Ye, Zitao Zhang, Tingyu Cheng, and Eli **Blevis**. 2022. Supporting Sustainability Through Minimalist Interaction Design Aesthetics. In: Bruyns, G., Wei, H. (eds) [] *With Design: Reinventing Design Modes. IASDR 2021*. Springer, Singapore. https://doi.org/10.1007/978-981-19-4472-7_30

Ph.D. Degrees Awarded (Since 2007)

- Dianya (Mia) Hua, 2024, special committee member (PSU, USA)
- Ana Marta Galvão Ferreira, 2024, external examiner (Universidade de Lisboa Instituto Superior Técnico)
- **Zaiqiao Ye**, 2023, co-primary advisor
- Cyn Szu-Yu Liu, 2020, committee member
- **Haodan Tan**, 2018, co-primary advisor with Selma Šabanović
- Hanna Hasselqvist, 2018, external examiner (KTH, Sweden)
- Kimberly Sheen, 2017, external examiner (PolyU, Hong Kong)
- Christian Remy, 2017, external examiner (UZH, Switzerland)
- **David Roedl**, 2016, primary advisor
- Anders Lundström, 2016, external examiner (KTH, Sweden)
- Karthikeya Acharya, 2016, external reviewer (Aalto, Finland)
- Leila Aflatoony, 2015, external examiner (SFU, Canada)
- **Yue Pan**, 2014, primary advisor
- Moushumi Sharmin, 2013, external committee member (UIUC, USA)
- Heekyoung Jung, 2011, committee member
- Rovy Frost Branon 2009, committee member
- Mark Notess 2008, advisor
- Alyssa Wise 2007, committee member

Current Ph.D. Students

- **Lingyun Chen**, co-primary advisor
- **Zitao Zhang**, co-primary advisor
- **Patrycja Zdziarska**, advisor

ACM Digital Library @ 06.17.2024

Cumulative downloads	105,314
Downloads (past 12 months)	9,686
Average downloads per article	1,064
Average citations per article	17

Google Scholar @ 06.17.2024

Citations	4,373
h-index	30
i10-index	66

Semantic Scholar @ 06.17.2024

Publications	136
h-index	28
Citations	3,502
Highly Influential Citations	192