Liang He, Ph.D.

Assistant Professor, Department of Computer Graphics Technology

Director, Design & Engineering for Making (DE4M) Lab

Purdue University

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EDUCATION

08/2022 Ph.D., Computer Science & Engineering, University of Washington

Dissertation: Fabricating Kinetic Objects with 3D Printable Spring-Based Mechanisms for Interactivity

Advisor: Jon E. Froehlich

Committee members: Jennifer Mankoff, Adriana Schulz, Nadya Peek

05/2015 M.S., Computational Design, Carnegie Mellon University, Pittsburgh

Thesis: SqueezaPulse - Adding Interactive Input Using Passive Pulses of Air

Advisor: Eric Brockmeyer

05/2013 M.S., Computer Science and Technology, University of Chinese Academy of Sciences (UCAS)

Thesis: A Tangible Approach for Storytelling

Advisor: Danli Wang

05/2010 B.Eng, Software Engineering, Beihang University (BUAA)

SELECTED HONORS AND AWARDS

- 2023 Special Recognitions for Paper Reviews, UIST '23, DIS '23, IMWUT, CHI '23, CHI '24
- 2022 Special Recognition for Paper Reviews, UIST '22, CHI '22
- 2021 Bob Bandes Memorial Honorable Mention Student Teaching Award (top 1%), CSE, UW
- 2021 Special Recognition for Paper Reviews, UIST '21
- 2020 Special Recognition for Paper Reviews, UIST '20, CHI '20
- 2019 Winner, CHI '19 SV t-shirt design contest
- 2018 Finalist, Amazon Catalyst Award
- 2017 Best Paper Award, CHI '17
- 2016 Conference Travel Funding, Department of Computer Science, UMD
- 2016 Best Late-Breaking Work Paper Award, CHI '16
- 2015/2016 Dean's fellowship, Department of Computer Science, UMD
 - 2014 Conference Travel Funding, School of Architecture, CMU
- 2013/2014 Department Scholarship, School of Architecture, CMU
 - 2014 Most Creative Award, UIST '14 Student Innovation Contest
 - 2015 Honorable Mentions Award, CHI '15

- 2014 Winner, CHI '14 SV t-shirt design contest
- 2012 Winner, G-Startup Seed Stage, Global Mobile Internet Conference '12
- 2011 Winner, Baidu User Experience contest
- Follow-up, Software Design, Microsoft Imagine Cup Local Final 2011
- 2009 China National Scholarship (Top 1% nationwide)

GRANTS

- Exploratory SAIL Grant Award to support collaborations with researchers at the University of Tokyo for 2023 a pedagogical program entitled "Hacking, Designing, and Making" - ~\$3k.
- ~\$10k from Holistic Safety and Security (HSS) Research Impact Area, Purdue University 2023

EMPLOYMENT

Aug 2022 – Department of Computer Graphics Technology, Polytechnic, Purdue University, West Lafavette, IN Assistant Professor in Interactive Media

Director, Design & Engineering for Making (DE4M) Lab

2017 – 2022 Paul G. Allen School of Computer Science & Engineering, University of Washington, Seattle WA Research Assistant. Makeability Lab.

with Jon E. Froehlich

Oct – Dec 2020 HP Labs, Palo Alto, CA

Research Intern, 3D Print Lab

with Kris J. Erickson and Rafael 'Tico' Ballagas

Jun – Sept 2019 HP Labs, Palo Alto, CA

Research Intern, Artificial Intelligence & Emerge Computing Lab

with Rafael 'Tico' Ballagas

Jun – Aug 2016 Microsoft Research, Redmond, WA

Research Intern. VIBE Group

with Rob DeLine and Saleema Amershi

May – Aug 2014 KEIO-NUS CUTE Center, Singapore

Research Intern with Ellen Yi-Luen Do and Beryl Plimmer

PUBLICATIONS

CONFERENCE PAPERS

- [C.10] Zeyu Yan, Hsuanling Lee, Liang He, and Huaishu Peng. 3D Printing Magnetophoretic Display. In 2023 Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23).
- 2022 [C.9] Liang He, Xia Su, Huaishu Peng, Jeffrey I. Lipton, and Jon E. Froehlich. Kinergy: Creating 3D Printable Motion using Embedded Kinetic Energy. In Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22).

- 2022 [C.8] Hongnan Lin, **Liang He**, Fangli Song, Yifan Li, Tingyu Chen, Clement Zheng, Wei Wang, and HyunJoo Oh. FlexHaptics: A Design Method for Haptic Inputs Using Flat Compliant Structures. In *Proceedings of the 40th Annual ACM Conference on Human Factor in Computing Systems (CHI '22)*.
- 2021 [C.7] Xuhai Xu, Jiahao Li, Tianyi Yuan, **Liang He**, Xin Liu, Yukang Yan, Yuntao Wang, Yuanchun Shi, Jennifer Mankoff, and Anind K. Dey. HulaMove: Using Commodity IMU for Waist Interaction. In *Proceedings of the 39th Annual ACM Conference on Human Factors in Computing Systems (CHI '21)*.
- 2019 [C.6] **Liang He**, Huaishu Peng, Michelle Lin, Ravikanth Konjeti, François Guimbretière, and Jon E. Froehlich. Ondulé: Designing and Controlling 3D Printable Springs. In *Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19)*.
- [C.5] Majeed Kazemitabaar, Jason McPeak, Alexander Jiao, Liang He, Thomas Outing, and Jon E. Froehlich.

 MakerWear: A Tangible Approach to Interactive Wearable Creation for Children. In *Proceedings of the*35th annual ACM conference on Human factors in computing systems (CHI '17).

 Best Paper Award [Top 1%]
 - [C.4] **Liang He**, Gierad Laput, Eric Brockmeyer, and Jon E. Froehlich. SqueezaPulse: Adding Interactive Input to Fabricated Objects Using Corrugated Tubes and Air Pulses. In *Proceedings of the ACM symposium on tangible and embodied interaction (TEI '17)*.
- 2015 [C.3] **Liang He**, Cheng Xu, Ding Xu, and Ryan Brill. PneuHaptic: Delivering Haptic Cues with a Pneumatic Armband. In *Proceedings of the 19th International Symposium on Wearable Computers (ISWC '15)*.
 - [C.2] Kelvin Cheng, **Liang He**, Xiaojun Meng, David A. Shamma, Dung Nguyen, and Anbarasan Thangapalam. CozyMaps: Real-time Collaboration on a Shared Map with Multiple Displays. In *Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI'15).*
 - [C.1] Beryl Plimmer, Liang He, Tariq Zaman, Kasun Karunanayaka, Alvin W. Yeo, Garen Jengan, Rachel Blagojevic, and Ellen Yi-Luen Do. New Interaction Tools for Preserving an Old Language. In
 Proceedings of the 33rd annual ACM conference on Human factors in computing systems (CHI '15).
 Honorable Mentions Award [Top 3%]

JOURNAL PUBLICATIONS

- 2021 [J.2] **Liang He**, Jarrid A. Wittkopf, Ji Won Jun, Kris Erickson, and Rafael 'Tico' Ballagas. ModElec: A Design Tool for Prototyping Physical Computing Devices Using Conductive 3D Printing. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 5*, no. 4 (2021): 1-20.
- 2014 [J.1] Danli Wang, **Liang He**, and Keqin Dou. StoryCube: Supporting Children's Storytelling with a Tangible Tool. *The Journal of Supercomputing*, Volume 70 Issue 1, Pages 269-283. Springer. 2014.

DOCTORAL POSITION PAPERS

2020 [DC.2] Liang He. Designing, Controlling, and Fabricating In-Place Augmented Structures. In Adjunct
Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST '20
Doctoral Symposium).

Committee: Michel Beaudouin-Lafon, Ranjitha Kumar, Pedro Lopes, Camille Moussette, Ken Hinckley

[DC.1] Liang He. Designing and Controlling On-Demand 3D Printable Structures to Support the Fabrication for Interaction. DUB Doctoral Colloquium 2020, University of Washington.
 Committee: Kurtis Heimerl, Richard Ladner, Jeffery Lipton, Wanda Pratt, Gonzalo Ramos, David Ribes, Jennifer Turns

EXTENDED ABSTRACTS/POSTER PAPERS/WORKSHOP PAPERS

- [P.8] Liwen He, Yifan Li, Mingming Fan, **Liang He**, and Yuhang Zhao. 2023. A Multi-modal Toolkit to Support DIY Assistive Technology Creation for Blind and Low Vision People. In *Adjunct Proceedings* of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct).
- [P.7] Srishti Shekhar Agrawal, Shrey Panchal, and **Liang He**. 2023. Understanding the Experiences, Challenges, and Needs of Dementia Caregivers in the Indian Subcontinent. In *the 25th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '23)*.
- 2022 [D.1] Daniel Campos Zamora, **Liang He**, Yueqian Zhang, Xuhai Xu, Jennifer Mankoff, and Jon E. Froehlich. sPrintr: Towards In-Situ Personal Fabrication using a Mobile 3D Printer. In *Symposium on Computational Fabrication* (SCF '22).
- 2022 [SIG.1] Junyi Zhu, **Liang He,** Jun Nishida, Hamid Ghaednia, Cindy Hsin-Liu Kao, Jon E. Froehlich, Edward Jay Wang, and Stefanie Mueller. SIG: Towards More Personal Health Sensing. In *Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)*.
- 2020 [EA.3] **Liang He,** Ruolin Wang, Xuhai Xu. PneuFetch: Supporting Blind and Visually Impaired People to Fetch Nearby Objects via Light Haptic Cues. In *Proceedings of CHI '20 Extended Abstracts on Human Factors in Computing Systems (CHI EA '20)*.
- 2019 [P.6] Venkatesh Potluri, **Liang He**, Christine Chen, Jon E. Froehlich, and Jennifer Mankoff. A Multi-Modal Approach for Blind and Visually Impaired Developers to Edit Webpage Designs. In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*.
- [P.5] Liang He, Zijian Wan, Leah Findlater, and Jon E. Froehlich. TacTILE: A Preliminary Toolchain for Creating Accessible Graphics with 3D-Printed Overlays and Auditory Annotations. In *Poster Proceedings of the 19th International ACM SIGACCESS Conference on Computers & Accessibility (ASSETS '17)*.
 - [P.4] **Liang He**, Huaishu Peng, Joshua Land, Mark D. Fuge, and Jon E. Froehlich. Designing 3D-Printed Deformation Behaviors Using Spring-Based Structures: An Initial Investigation. In *Adjunct Proceedings* of the 30th Annual ACM Symposium on User Interface Software and Technology (UIST '17).
 - [P.3] **Liang He**, Joshua Land, Huaishu Peng, Mark D. Fuge, and Jon E. Froehlich. Early Exploration of Deformable Interactive Designs with 3D-Printed Springs. In *Proceedings of the 1st Annual ACM Symposium on Computational Fabrication (SCF '17)*.
- 2016 [EA.2] Majeed Kazemitabaar, Liang He, Katie Wang, Chloe Aloimonos, Tony Cheng, and Jon E. Froehlich. ReWear: Early Explorations of a Modular Wearable Construction Kit for Young Children. In Proceedings of CHI '16 Extended Abstracts on Human Factors in Computing Systems (CHI EA '16).

 Best Poster Award [Top 1%]

- [EA.1] Ruofei Du and **Liang He**. VRSurus: Enhancing Interactivity and Tangibility of Puppets in Virtual Reality. In *Proceedings of CHI '16 Extended Abstracts on Human Factors in Computing Systems (CHI EA '16)*.
- 2012 [P.2] Danli Wang, Yang Zhang, Tianyuan Gu, Liang He, and Hongan Wang. E-Block: A Tangible Programming Tool for Children. In Adjunct Proceedings of the 25th Annual ACM Symposium on User Interface Software and Technology (UIST '12).
 - [P.1] **Liang He**, Guang Li, Yang Zhang, Danli Wang, and Hongan Wang. TempoString: A Tangible Tool for Children's Music Creation. In *Proceedings of the 14th International Conference on Ubiquitous Computing (UbiComp '12*).

PATENTS/SOFTWARE COPYRIGHTS

- 2013 [PA.1] "A Method and System for Children's Tangible Storytelling". Patent number: 2013100129910
- 2010 [SC.1] "InkSound: A Pen-based System for Chinese Traditional Painting."

INVITED TALKS

- Sept 2023 Beyond Shape: Creating Interactive 3D Printable Objects. UW-Madison.
- Sept 2023 Beyond Shape: Creating Interactive 3D Printable Objects. Faculty Talk. Purdue University.
- Jul 2023 Beyond Shape: Fabricating Kinetic Objects for Interactivity. Tsinghua University, virtual.
- May 2023 Beyond Shape: Fabricating Kinetic Objects for Interactivity. Zhejiang University, China.
- May 2023 Beyond Shape: Fabricating Kinetic Objects for Interactivity. Duke Kunshan University, China.
- Apr 2023 Beyond Shape: Fabricating Kinetic Objects for Interactivity, HCI Seminar, CSAIL, MIT.
- Nov 2022 **Build for Access.** Introduction to Assistive Technology and Robotics (CNIT 581 AST). Department of Computer Information Technology, Polytechnic Institute, Purdue University.
- Nov 2022 **Prototyping, Prototyping.** Introduction to Human-Computer Interaction (CISCX87), Department of Computer Science, University of Delaware.
- Mar 2022 Beyond Shape. Georgia Tech.
- Jan 2022 Beyond Shape. Hasso Plattner Institute.
- Dec 2021 Beyond Shape. HCIL Brown-Bag Lunch. University of Maryland, College Park.
- Nov 2021 ModElec. CSE Colloquium. University of Washington.
- Jul 2021 Beyond Shape. HCI seminar invited by Ryo Suzuki. University of Calgary. Virtual.
- Mar 2021 Kinetic Fab Research Overview. Lightning Talk. IWHEC 2021 affiliated forum. Virtual.
- Dec 2020 3D Printing Electronics. HP 3D Print Lab.
- Oct 2020 Designing, Controlling, and Fabricating In-Place Augmented Structures. UIST 2020 Doctoral Symposium. Virtual.
- Jun 2020 Designing and Controlling On-Demand 3D Printable Structures to Support the Fabrication for Interactivity. DUB Doctoral Colloquium, UW, Seattle.
- Dec 2019 Ondulé. Institute of Software, Chinese Academy of Sciences (ISCAS), Beijing.

- Sept 2019 Ondulé. HCI Lunch Talk. Stanford, CA.
- Jul 2019 Making 3D-Printed Objects for Interactivity. Lightning Talk. UW CSE/MSR Summer Institute Future of Fabrication, Blaine, WA.
- Nov 2018 Modeling and Fabricating Interactivity and Creativity with Object Properties. UW CSE Colloquia Computational Fabrication. Seattle, WA.
- Nov 2018 **Fabricating High-Level Design Specifications with Low-Level Object Properties.** Industry Affiliates Research Day. UW. Seattle, WA.
- Nov 2016 SqueezaPulse. Tech+Design: Interaction Design for a Purpose. UMD, College Park, MD.
- May 2016 SqueezaPulse. HCIL's 33rd Annual Symposium. UMD, College Park, MD.

GUEST LECTURES/WORKSHOPS

- 2022 [W.4] **CSNext Workshop.** Mentoring four students from underrepresented groups. CSE, UW.
- 2020 [W.3] **3D Printed Electronics with ModElec.** HP Labs.
- 2019 [L.2] Heuristic Evaluation. Guest lecture in CSE 440A: Introduction to HCI. CSE, UW.
- 2018 [W.2] Video Making. CSE SkillShare Workshop, UW.
 - [W.1] **3D Modeling with Fusion 360.** CSE 590A: Ubiquitous Computing, CSE, UW.
 - [L.1] Laser Cutting. Guest lecture in HCID 521, Human-Computer Interaction & Design, UW.

TEACHING

2023 [TE. 13] **CGT512: Foundational Readings of UX Design.** *CGT, Purdue.*

Instructor, taught 41 grad students, studio-based course

2023 [TE. 12] CGT532: UX Design Graduate Studio (Cross-Channel). CGT, Purdue.

Instructor, taught 28 grad students, studio-based course

2022 [TE.11] **CGT116: Geometric Modeling for Visualization and Communication.** CGT, Purdue.

Instructor, taught 98 undergrad students, statewide and hybrid

2021 [TE.10] **CSE 490: Physical Computing.** CSE, UW. (Remote teaching and hardware prototyping)

Instructor: Jon E. Froehlich

Bob Bandes Memorial Honorable Mention Student Teaching Award (Top 1%), CSE, UW

2020 [TE.9] **CSE 590A: Ubiquitous Computing.** CSE, UW. (Course development and remote teaching)

Instructor: Jon E. Froehlich

2019 [TE.8] CSE 599U: Prototyping Interactive Systems. CSE, UW.

Instructor: Jon E. Froehlich

[TE.7] **CSE 440A: Introduction to HCI.** *CSE*, *UW*.

Instructor: Nigini Oliveira

2018 [TE.6] CSE 440A: Introduction to HCI. CSE, UW.

Instructor: Nigini Oliveira

- [TE.5] **CSE 590A: Ubiquitous Computing.** CSE, UW. (Couse development) Instructor: Jon E. Froehlich
- [TE.4] **HCID 521: Prototyping Studio.** *HCID, UW. (Course development) Instructors: Jon E. Froehlich and Jennifer Mankoff*
- 2016 [TE.3] CMSC 250: Discrete Structures. CS. UMD, College Park.
 - [TE.2] CMSC 132: Object-Oriented Programming II. CS. UMD, College Park.
- 2015 [T.1] CMSC 131: Object-Oriented Programming I. CS. UMD, College Park.

ACADEMIC SERVICES

Program Committee

- 2024 DIS 2024 Program Committee, Associate Chair, papers and pictorials
- 2024 SIGGRAPH 2024 Emerging Technologies Jury Committee
- 2023 CHI 2024 Program Committee, Associate Chair, Blending Interaction: Engineering Interactive Systems & Tools subcommittee
- 2023 ASSETS 2023 Program Committee, Associate Chair, papers, posters, and demos
- 2023 DIS 2023 Program Committee, Associate Chair, papers and pictorials
- 2022 Invited Guest Editor for Journal CCF Transactions on Pervasive Computing and Interaction
- 2022 IDC 2023 Program Committee, Associate Chair, full paper track
- 2022 ASSETS 2022 Program Committee, Associate Chair, papers, posters, and demos
- 2021 ACHI 2021 Program Committee, Associate Chair, ful paper track
- 2021 IDC 2021 Program Committee, Associate Chair, work-in-progress
- 2021 CHI 2021 Program Committee, Associate Chair, late-breaking work
- 2020 CHI 2020 Program Committee, Associate Chair, late-breaking work
- 2019 CHI 2019 Program Committee, Associate Chair, late-breaking work

Organizing Committee

- 2024 Student Innovation Contest co-chair, UIST 2024
- 2023 Posters & Demos co-chair, ASSETS 2023
- 2023 Experience Reports co-chair, ASSETS 2023
- 2023 Proceedings co-chair, UIST 2023
- 2022 Proceedings co-chair, UIST 2022
- 2022 Web and Graphic Design co-chair, ASSETS 2022
- 2019 Design and Web co-chair, UIST 2019

Reviewing

160+ papers, 10 special recognitions for excellent review

- 2023 CHI '24, SCF '23, IDC '23, ASSETS '23, DIS '23, UIST '23, IEEE VR 2024
- 2022 CHI '23, UIST '22, ASSETS '22, IEEE VR 2023, IMWUT
- 2021 CHI '22, UIST '21, DIS '21, SCF '21, CSCW (April), AHCI '21
- 2020 CHI '21, UIST '20, DIS '20, SCF '20
- 2019 CHI '20, UIST '19, WAC '19
- 2018 CHI '19

- 2017 CHI '18, TEI '18
- 2016 CHI '17, TEI '17, MobileHCI '16
- 2015 CHI '16

Volunteering/Chairing

- 2023 Session Chair, CHI 2023
- 2022 Session Chair, UIST 2022
- 2021 Session Chair, UIST 2021
- 2017 Student Volunteer, TEI 2017
- 2015 Student Volunteer, CHI 2015
- 2014 Student Volunteer, UIST 2014
- 2014 Student Volunteer, CHI 2014
- 2012 Student Assistant, the first China Symposium on HCI

Other Services

- 2020 Logo Design, HiLab at UCLA
- 2019 Student Volunteer T-shirt Design, CHI 2019
- 2019 Visual Identity, Website, and Graphic Design, UIST 2019
- 2016 Logo Design, Makeability Lab
- 2014 Student Volunteer T-shirt Design, CHI 2019

OUTREACH

Leading the creation and maintenance of FabGalaxy (since 2018)

FabGalaxy is an online interactive visualization repository that provides a quick entry to fabrication research in human-computer interaction and computer graphics. This platform is hosted on the MIT's online repository for personal fabrication research which was created and maintained by HCI Engineering group, MIT CSAIL.

STUDENT ADVISING

- 2023 Amy Yu. M.S. in Information Visualization at Purdue University.
- 2023 **Haicheng Li.** Junior in Computer and Information Technology at Purdue University.
- 2023 **Riddhi Chaudhari.** M.S. in User Experience Design at Purdue University.
- 2023 **Prithvi Manjunatha.** M.S. in User Experience Design at Purdue University.
- 2023 **Tongyan Wang.** Ph.D. in Technology at Purdue University.
- 2023 Chenxi Yang. Senior in Computer Science and Technology at Tsinghua University.
- 2023 **Jacqueline Dong.** M.F.A. in Communications Design at Pratt Institute.
- 2023 **Zishuo Feng.** M.S. in Computer and Information Technology at Purdue University.
- 2023 Srishti Shekhar Agrawal. M.S. in User Experience Design at Purdue University.
- 2023 **Shrey Panchal.** M.S. in User Experience Design at Purdue University.
- 2023 **Rohan Pant.** M.S. in User Experience Design at Purdue University.
- 2022 **Hsuanling Lee.** Senior in Computer Engineering at Purdue University.
- 2022 Maverick Broviak. Senior in Biomedical Engineering at Purdue University.
- 2022 Emily Ann Testin. Senior in Mechanical Engineering at Purdue University.
- 2022 Liwen He. Grad in Industrial Design at Beihang University, China.
- 2022 Yifan Li. Senior in Architecture at Southeast University, China.
- 2021 2022 Daniel Campos Zamora. Ph.D. in CSE at UW.

- 2021 Hongnan Lin. Ph.D. in Design at Georgia Tech; now postdoc at ISCAS.
- 2020 2021 Yueqian Zhang. Undergrad in CSE at UW; now grad in CSE at UW.
- 2020 2021 Xia Su. Grad in Architecture at Tsinghua; now Ph.D. in CSE at UW.
- 2020 2021 **Xiyuan Shen.** Undergrad in Media Art at Tsinghua University; now graduate at Tsinghua.
- 2020 2021 Arjun Simha. High school student; now undergrad in EE at UW.
- 2019 2021 Jessica Chin. Undergrad in Psychology at UW; now at Meta.
 - 2020 Yawen Zheng. Undergrad in Media Art at Tsinghua University; now grad at Tsinghua.
 - 2020 Yuebing Liang. Grad in Architecture at Tsinghua Univ.; now Ph.D. in Architecture at Hong Kong Univ.
 - 2019 Venkatesh Potluri. Ph.D. in CSE at UW.
 - 2019 **Sophie Tian.** Undergrad in CSE at UW; now software engineer at Microsoft.
 - 2019 Michelle Lin. Undergrad in CSE at UW; now grad in CSE at UW.
 - 2017 **Joshua Land.** Undergrad in Mechanical Engineering at Univ. of Maryland; now engineer at Appian.
 - 2012 Muyan Li. Undergrad at Beihang; now software development engineer at UiPath.
 - 2012 Yang Zhang. Undergrad at Beihang; now assistant professor at UCLA.
 - 2012 **Keqin Dou.** Undergrad at Univ. of Science and Technology Beijing; now regional director at Fintopia.