# Envisioning New Futures of Positive Social Technology: Beyond Paradigms of Fixing, Protecting, and Preventing

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Social technology research today largely focuses on mitigating the negative impacts of technology and, therefore, often misses the potential of technology to enhance human connections and well-being. However, we see a potential to shift towards a holistic view of social technology's impact on human flourishing. We introduce *Positive Social Technology (Positech)*, a framework that shifts emphasis toward leveraging social technologies to support and augment human flourishing. This workshop is organized around three themes relevant to Positech: 1) "Exploring Relevant and Adjacent Research" to define and widen the Positech scope with insights from related fields, 2) "Projecting the Landscape of Positech" for participants to outline the domain's key aspects and 3) "Envisioning the Future of Positech," anchored around strategic planning towards a sustainable research community. Ultimately, this workshop will serve as a platform to shift the narrative of social technology research towards a more positive, human-centric approach. It will foster research that not only fixes technologies and protects or prevents humans from technology's faults but also enriches human experiences and connections through technology.

CCS Concepts: • Human-centered computing → Collaborative and social computing.

#### **ACM Reference Format:**

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#### 1 INTRODUCTION

Much of social computing research primarily focuses on addressing the flaws of current platforms, particuarly in social media. However, this often limits exploring new, potentially more beneficial socio-technical systems. Indeed, today's research interventions are often confined within the bounds of platforms like Facebook and Instagram [16–18, 33], as opposed to pioneering new models, such as in research prototypes from two decades ago [30]. Furthermore, legislative approaches focus reactively on addressing problems on specific, existing platforms rather than proactively considering new possibilities [1, 2, 38, 44] for the future of social technologies, furthering the view of social media as a fixed entity.

While prevention is important, focusing on positive and healthy potentials is equally important. We draw inspiration from positive psychology [42], which arose from the understanding that people seek more than just relief from suffering; they aspire to live meaningful, fulfilling lives, nurturing their best qualities and enriching their experiences of love, work, and play [41]. Decades of research in positive psychology have demonstrated that enhancing positive affect or life satisfaction is not merely about removing negative affect [39].

Similar opportunities for positive impact are emerging in social computing research. To illustrate this, we consider social media as a representative example. Much research has understandably focused on addressing issues such as problematic social media use [10, 21, 32, 34, 37, 47–49], the adverse effects of social media on mental health [9, 19, 21–23, 32, 34, 37, 48], the effect of misinformation/disinformation on political dynamics [45, 50], and the implications of privacy violations [3, 4, 20, 35, 51, 55]. However, an additional, complementary approach allows us to more comprehensively address social media's core potential: fostering and amplifying human flourishing, or "living within an optimal range of human functioning, one that connotes goodness, generativity, growth, and resilience," [11] through the cultivation of positive emotions, engagement, relationships, meaning, purpose, and accomplishments, following the PERMA model of well-being [40]. To truly harness social media as a technology centered on human flourishing, our research, design, and development must prioritize and be sensitive to both inter- and intra-personal growth and needs. We see great promise in integrating scientific knowledge and theories regarding how to make life more fulfilling into research on social technologies and in designing and creating new sociotechnical environments that better support human and societal flourishing through social interaction.

# 1.1 Positive Social Technology (Positech)

Given the historical evolution of social computing research and the rise of positive psychology, we propose *Positech* as the theme of our workshop. Positech is a *framework* that advocates for a shift in how we engage with social technology, emphasizing its potential to support and enhance human flourishing. It is characterized by focusing on the potential and opportunities for innovation and positive change that center on human flourishing rather than merely rectifying issues in humans or technology. Positech is both a framework and a set of efforts encompassing the development of technologies, legislative actions, industry initiatives, theoretical research, and meta-scientific research.

Figure 1 shows the relationships between Positech and its adjacent fields. Here, we lay out the distinct guiding questions of each field for each labeled area in the figure.

- (A) Positive Technology: How can we use technology to increase emotional quality, engagement, and connectedness in personal experiences (e.g., therapy)? [6, 15, 36]
- (B) *Positive Computing:* How can we account for well-being determinants such as autonomy, competence, relatedness, compassion, engagement, and meaning at every stage of interaction design? [8]

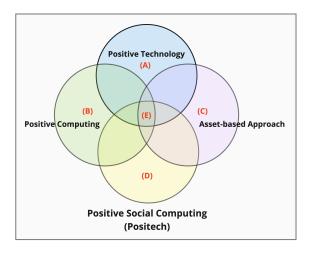


Fig. 1. Venn Diagram of Positech and Related Concepts

- (C) Strength-based Approach: How can we build upon users' strengths and self-determination in using and engaging with technology? [53]
- (D) *Positive Social Technology (Positech):* How are we balancing the needs for fixing and innovating social technologies in supporting human flourishing in areas such as positive affect and meaning?

An example outcome at the intersection of these fields (labeled (E) in Figure 1) could include research on a proof-of-concept for a new social media platform designed to explore new possibilities for increasing human connectedness. This platform would leverage people's intrinsic motivations to empathize with others to enhance the effectiveness of peer support.

Positech is distinct from positive technology or computing, which focuses on designing technology to improve personal well-being and quality of life. While principles of positive technology and computing guide systems creation, they represent only one aspect of Positech. Positech involves not just creating technology but also driving social technology development through broader ethical and societal dialogue about technology's role. Unlike the asset-based approach, Positech does not define users' roles in technology use. It aims to maximize technology's potential in supporting universally valued aspects of human life, such as fostering connections and self-actualization, without making value judgments on individual capacities, which can vary across cultures and contexts. Positech also puts a particular emphasis on social technology.

It is important to note that within the Positech framework, we prioritize enriching interpersonal and personal experiences, viewing technology primarily as a supportive tool. While social technologies hold transformative potential for facilitating human connections, they should not replace them by default. Our goal is for technology to amplify direct human interactions and, where necessary, create new avenues for meaningful engagement. This ensures that technology *enhances rather than substitutes for meaningful and authentic human connections*, maintaining our focus on supporting the core elements of human flourishing.

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#### 1.2 Relevance to the CSCW Community

We recognize that within the CSCW community, there are already numerous research initiatives that embody the principles of Positech, focusing on proactively enhancing human flourishing and well-being through technology [12–14, 25–29, 31, 46, 52, 54, 56]. Our vision is not to present these ideas as new but to acknowledge and unify these scattered efforts under the Positech framework. By doing so, we aim to consolidate and amplify the impact of work that aligns with our goals:

- (1) Beyond fixing people, toward the goals of positive psychology such as human flourishing and well-being. This direction is in contrast to work that exclusively documents harms or seeks to effect behavior change without the intention of the user.
- (2) Beyond fixing technology, toward new paradigms and design patterns that prioritize positive psychology. This direction contrasts with work that aims to mitigate harms that exist on current platforms.

These directions are not entirely separate but depict two different orientations toward our goals that best represent different types of research contributions. By focusing on both immediate and broader possibilities, we envision a future where CSCW is instrumental in unlocking the full potential of social technologies to contribute to human flourishing. However, it is crucial to acknowledge that social technology research has played a significant role in bringing us to our present understanding, and it is not the intention to diminish the value of these contributions. Rather, we call for a broader perspective that includes seeking new possibilities that would complement rather than replace current research momentum

#### 2 ORGANIZERS

**JaeWon Kim** is a PhD student at the University of Washington Information School. Her research focuses on understanding how social media supports or undermines relationship-building, and on designing and building social media systems that center on trust-based relationship building, especially for teens.

**Lindsay Popowski** is a PhD candidate in the Stanford University Computer Science Department. Her research is in the field of social computing systems, with an emphasis on the design of social media. She works to design and build online spaces that facilitate to unique social goals, such as strong interpersonal relationships, reciprocation of effort, and conversational context.

**Anna Fang** is a PhD student at Carnegie Mellon University in the Human-Computer Interaction Institute, School of Computer Science. Her work is at the intersection of computational social science and mental well-being. She is predominantly interested in proactive approaches — those that are self-sustaining, self-correcting, or promote positive behaviors — for emotional and mental health, rather than retrospective handling of harm after it has occurred.

**Cassidy Pyle** is a Ph.D. Candidate at the University of Michigan School of Information. Her work examines how marginalized and stigmatized communities' interactions with and on socio-technical systems (e.g., social media, algorithms) may simultaneously afford *and* constrain self-expression, emotional well-being, and access to college and career opportunities.

**Guo Freeman** is an Associate Professor of Human-Centered Computing at Clemson University. Her work focuses on how interactive technologies such as digital games, live streaming, social VR, and AI shape interpersonal relationships and group behavior; and how to design safe, inclusive, and supportive social VR spaces to mitigate emergent harassment risks.

**Ryan M. Kelly** is an Associate Professor in the School of Computing Technologies at RMIT University. His research focuses on the design and evaluation of communication technologies for fostering meaningful connections and alleviating social isolation. This includes designing for sensitive settings and vulnerable user groups, such as people with chronic health conditions or older adults living in long-term institutional care.

**Angela Y. Lee** is a Ph.D. Candidate in the Department of Communication at Stanford University. Her research investigates how communication technologies affect well-being.

**Fannie Liu** is a VP Applied Research Lead on the Global Tech Applied Research AR/VR team at JPMorgan Chase & Co. Her research involves the design of novel social experiences that promote social connection, collaboration, and well-being.

**Angela D. R. Smith** is an Assistant Professor in the School of Information at the University of Texas at Austin, where she co-leads the Research on Equity, Access, and incLusIon in Technology and society (REALITY) Lab. Her research explores the design of socially responsible technology experiences by examining racial and cultural inequities.

**Alexandra To** is an Assistant Professor jointly appointed in the Art+Design department and the Khoury College of Computer Sciences at Northeastern University. She works in HCI, game design, critical race theory, and identity.

**Amy X. Zhang** is an Assistant Professor in the University of Washington Allen School of Computer Science and Engineering, where she leads the Social Futures Lab dedicated to reimagining social and collaborative systems to empower people and improve society. Her research areas broadly include social computing, CSCW, human-AI interaction, and HCI.

## 3 AGENDA

Our hybrid workshop at CSCW 2024 will bring together 15-30 researchers/practitioners/designers to discuss the area of Positech: aiming to envision new futures of positive social technology and strategize how to support each other's efforts. We aim to explore the overlapping fields of research that contribute to Positech, project a current landscape and future agenda, and plan how to build community and support our peers. This workshop puts specific focus on community-building and collaborative agenda-setting; we therefore dedicate most of our time to small-group brainstorms and discussions. We also plan to collaboratively develop a course syllabus through the workshop to advance and project the Positech research agenda.

Table 1. Workshop Agenda

Time	Activity
9:00-10:00am	Welcome and Attendee Introduction
10:00-10:20am	Coffee Break
10:20-11:20am	Panel: Positech Histories and Influences
11:20-12:00pm	Discussion: Positech Boundaries and Overlaps
12:00-1:30pm	Lunch Break
1:30-2:50pm	Brainstorm, Share, Synthesize: Positech Challenges and Promising Directions
2:50-3:10pm	Coffee Break
3:10-3:50pm	Brainstorm, Share: How to Support Positech Research
3:50-4:40pm	Brainstorm, Share: Positech Community Futures
4:40-5:00pm	Closing
6:30pm	(Optional) Dinner Social Event

#### 3.1 Themes

Our workshop activities are motivated by particular goals, which we realize via three themes.

- 3.1.1 Theme 1: Exploring Relevant and Adjacent Research. We explore this theme via the "Positech Histories and Influences" Panel. In our panel discussion, we will invite experts across fields that overlap with Positech to explore the following questions:
  - *Historical Lessons*: What can we learn from prior research on social technologies? How can that inform future research directions? How have previous platforms/research projects influenced current social technologies?
  - Defining Positech: What do we think are important distinctions to draw between Positech and related fields or frameworks? How can we synthesize insights from related fields such as positive computing, positive technologies, strength-based technology, and asset-based technology with lessons from adjacent disciplines like psychology to inform the development of social technologies aimed at human flourishing?
- 3.1.2 Theme 2: Projecting the Landscape of Positech. We address this theme via two Discussions: "Positech Boundaries and Overlaps" and "Positech Challenges and Promising Directions."

We aim to map the current landscape of Positech. Key questions for discussion include: What constitutes Positech? What are its challenges and opportunities? To facilitate this exploration, participants will collaborate in groups to design a course syllabus regarding themes around Positech: origins, overlapping fields and frameworks, and different ongoing research directions.

3.1.3 Theme 3: Envisioning the Future of Positech. This theme is addressed through the "How to Support Positech Research" and "Positech Community Futures" Discussions.

For the final activity of our workshop, we will engage in a brainstorming session to outline our post-workshop plans. This will be conceptualized as a research question: *How can we maintain an asynchronous, geographically dispersed, cross-generational, and (potentially) culturally diverse research community?* Addressing community continuity is a complex challenge that has garnered much attention in social computing [5, 7, 24], and social technologies are perhaps our best tool for sustaining such a community across geographical distances. <sup>1</sup>

We plan to implement strategies developed during the session to ensure the momentum generated by our workshop continues to build. Relevant questions include:

- *Ideal scenarios*. What does an ideal future look like with Positech fully integrated into social technology research and society in general?
- Sustaining Positech. How can we keep the momentum alive post-workshop? How should this community function and interact? How can assist others in the Positech community with research?
- *Unintended consequences*. How can we anticipate unintended consequences of new technologies or communities proactively and prevent them at an early stage? How can we ensure that Positech actually prioritizes and supports the well-being of individuals and communities?

# 3.2 Deliverables

We aim to come away from the workshop with two main takeaways:

<sup>&</sup>lt;sup>1</sup>One example idea that may come out of this discussion is a Slack [43] bot designed to facilitate interaction among participants. This bot would pair members for virtual coffee chats, using conversation starters linked to their research interests to foster sustained dialogue and collaboration.

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- (1) Positech Syllabus: a course syllabus on Positech. This syllabus will outline the course's overview and motivation, feature 8-15 weekly themes covering various Positech aspects, include recommended weekly readings, and detail assignments such as projects and reading responses. We will share the result on our website as a resource for the wider community., along with a broader list of exemplar papers. (Developed during first two discussions, including insights from the panel.)
- (2) Positech Community Plan: a set of steps to develop and maintain a community of researchers engaged in the Positech vision. This will include ideas for maintaining communication between attendees, facilitating discovery for newcomers to the area, and ways to connect members with support within the community. (Developed during last two discussions.)

#### 4 WORKSHOP LOGISTICS

## 4.1 Website

The link to our website is https://positech-cscw-2024.github.io/. We have prepared the website with an overview of our workshop, a call for participation, and key information about the workshop including the workshop agenda, and organizer information. We also plan to publicize any outcome of our workshop, such as the hypothetical Positech course syllabi and workshop submissions, if given the authors' consent.

## 4.2 Pre-workshop Plan

Call for participation. We will invite 25-30 individuals interested in the goal of envisioning new futures of positive social technology to participate in our hybrid-format workshop. Submissions are welcomed in several forms:

- Position papers or drafts (2-6 pages, ACM single-column format, excluding references) discussing themes of the workshop. Alternate forms such as design fiction are encouraged.
- "Encore" submissions of relevant conference or journal papers.
- Statements of research interest (up to 2 pages, ACM single-column format, excluding references).

Selecting participants. Submissions will be reviewed by the organizers based on: 1) relevance to the workshop's theme, 2) quality of the submission, and 3) diversity of perspectives. This approach will ensure a rich exchange of ideas among participants from varied backgrounds and specialties.

**Workshop preparation.** To make the workshop accessible globally, we are adopting a hybrid format. Recognizing the challenges of international travel, virtual attendance is fully supported. Prior to the workshop, we will survey participants to understand their accessibility needs, constraints, and expectations. This feedback will inform the logistics and schedule, with experienced organizers ensuring an engaging experience for both in-person and remote attendees.

# 4.3 Accessibility

We will ask all attendees to supply an accessable PDF of their submissions. For online workshop attendees, we will enable (auto-generated) live closed captioning, which participants will be able to turn on as desired. Any special accessibility requirements can be communicated to us, and we will do our best to provide an accommodation in partnership with the Accessibility Chair.

# 4.4 Remote Participation

 We want to provide an enjoyable experience for in-person and remote attendees. We will plan digitally-mediated brainstorming and mind-mapping activities that will allow those attending virtually to share the discussion experience with those physically present. We will also have organizers manning the virtual space and making sure attendees are all able to be engaged.

# 4.5 Post-workshop plan

Our workshop is designed to generate (a) a syllabus, and (b) a plan for community building after the workshop. We plan to make the syllabus widely available and publicize it after the workshop. We also plan to follow the community building plan to keep our ties and build new ones after the workshop.

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