

Overview of The First Person Project

Privacy-preserving proof of
personhood based on personal
trust relationships, not biometrics

Drummond Reed & FPP Contributors
CAWG Bi-weekly Meeting
2025-05-19



The origin of the First Person Project was solving **proof of personhood** *without* using a global biometric database.

In other words,
without using one
of these.



Vitalik Buterin described the alternative in his 6500 word essay "What do I think about biometric proof of personhood?"

<https://vitalik.eth.limo/general/2023/07/24/biometric.html>

Vitalek's problem areas

	Vitalek's preferred solution		Worldcoin
	Social-graph-based	General-hardware biometric	Specialized-hardware biometric
Privacy	Low	Fairly low	Fairly high
Accessibility / scalability	Fairly low	High	Medium
Robustness of decentralization	Fairly high	Fairly high	Fairly low
Security against "fake people"	High (if done well)	Low	Medium

But Vitalek was looking at the
proof of personhood problem
through a **blockchain** lens.

If you look at the problem
through a decentralized identity
lens—using DIDs and VCs—
we can solve it beautifully.

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Accessibility / scalability	Fairly low ✓	High	Medium
Robustness of decentralization	Fairly high ✓	Fairly high	Fairly low
Security against "fake people"	High (if done well) ✓	Low	Medium

To build this solution requires two specific types of VCs:

1. Personhood Credentials (PHCs)
2. Verifiable Relationship Credentials (VRCs)

Personhood Credentials (PHCs)

The term “personhood
credential” was introduced in
seminal proof of personhood
paper published in August 2024.

Personhood credentials: Artificial intelligence and the value of privacy-preserving tools to distinguish who is real online

Steven Adler,^{*1} Zoë Hitzig,^{*1,2} Shrey Jain,^{*13} Catherine Brewer,^{*4} Wayne Chang,^{*5} Renée DiResta,^{*25} Eddy Lazzarin,^{*6}
Sean McGregor,^{*} Wendy Seltzer,⁸ Divya Siddarth,^{*9} Nouran Soliman,^{*10} Tobin South,^{*10} Connor Spelliscy,^{*11}
Manu Sporny,^{*12} Varya Srivastava,^{*4} John Bailey,¹³ Brian Christian,⁴ Andrew Critch,¹⁴ Ronnie Falcon,¹⁵ Heather Flanagan,²⁵
Kim Hamilton Duffy,¹³ Eric Ho,¹⁷ Claire R. Leibowicz,¹⁸ Srikanth Nadhamuni,¹⁹ Alan Z. Rozenshtein,²⁰
David Schnurr,¹ Evan Shapiro,²¹ Lacey Strahm,¹⁵ Andrew Trask,^{4,15} Zoe Weinberg,²² Cedric Whitney,²³ Tom Zick²⁴

¹OpenAI, ²Harvard Society of Fellows, ³Microsoft, ⁴University of Oxford, ⁵SpruceID, ⁶a16z crypto,

⁷UL Research Institutes, ⁸Tucows, ⁹Collective Intelligence Project, ¹⁰Massachusetts Institute of Technology,

¹¹Decentralization Research Center, ¹²Digital Bazaar, ¹³American Enterprise Institute,

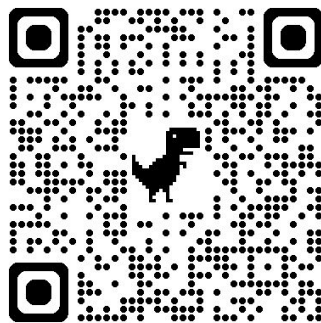
¹⁴Center for Human-Compatible AI, University of California, Berkeley, ¹⁵OpenMined,

¹⁶Decentralized Identity Foundation, ¹⁷Goodfire, ¹⁸Partnership on AI, ¹⁹eGovernments Foundation,

²⁰University of Minnesota Law School, ²¹Mina Foundation, ²²ex/ante, ²³School of Information, University of California, Berkeley,

²⁴Berkman Klein Center for Internet & Society, Harvard University, ²⁵Independent Researcher

August 2024



The paper boils personhood credentials (PHCs) down to two strict requirements:

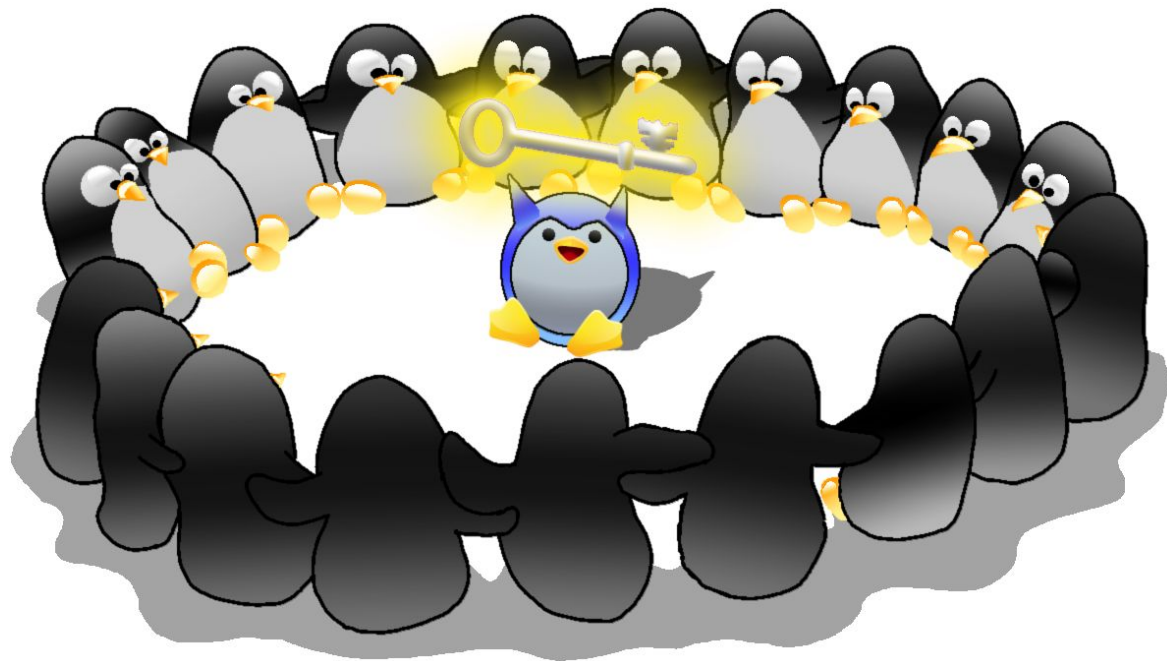
1. **Credential limits:** PHC issuers must only issue one per person.
2. **Unlinkable pseudonymity:** PHC verifiers must accept zero-knowledge proofs (ZKP).

But personhood credentials by themselves do not build a decentralized social graph—they only create one kind of relationship within that graph.

Verifiable Relationship Credentials (VRCs)

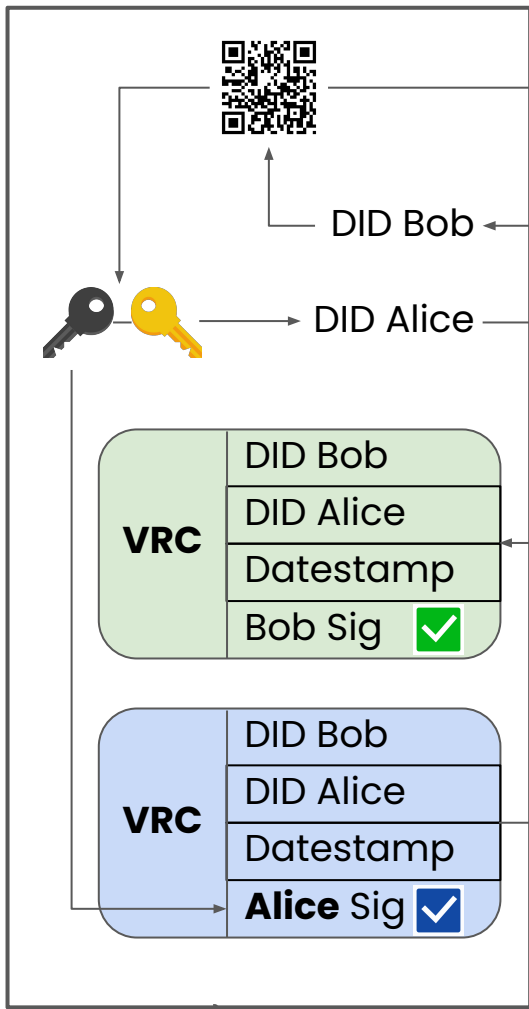
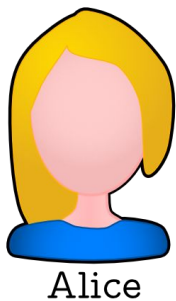
The best explanation of VRCs came from the First Person Project Workshop led by **Linux Foundation ED Jim Zemlin** and his staff at the LF Member Summit in March.

Verifiable relationship credentials are Phil Zimmermann's dream.



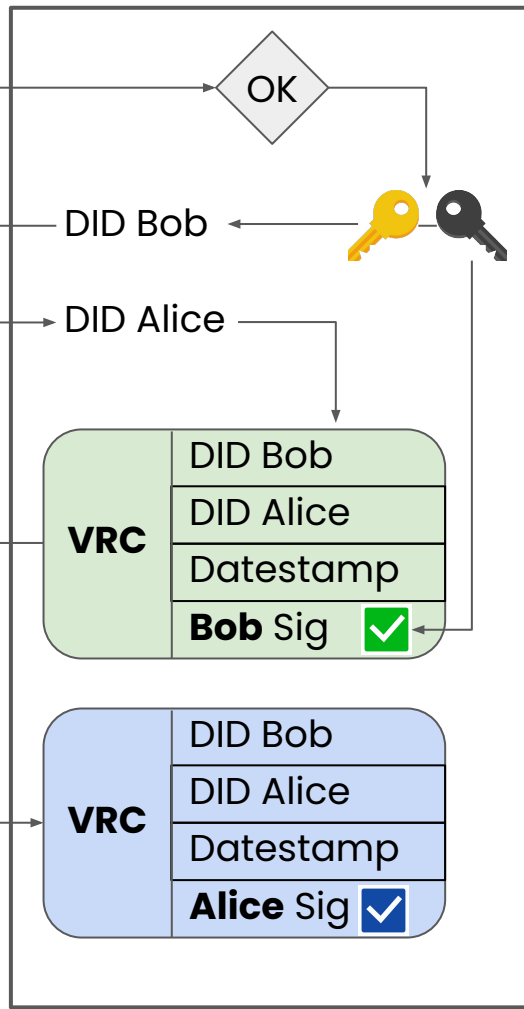
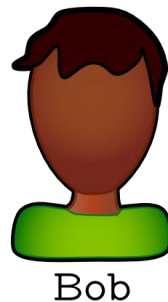
They are the ultimate instant key signing party.

Alice's Wallet



**Pairwise
private DIDs**

Bob's Wallet



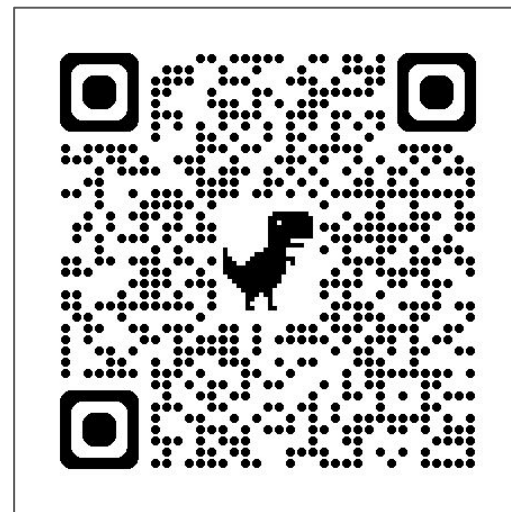
VRCs are not limited to just
verifiable proof of a relationship.
They can also be the basis for
decentralized reputation.

Internet Identity Workshop
co-founder Phil Windley
described this in depth in his
[blog post about VRCs:](#)

Establishing First Person Digital Trust

👤 Phil Windley // 📅 Thu Apr 10 11:48:00 2025 // DIDCOMM FIRST+PERSON IDENTITY

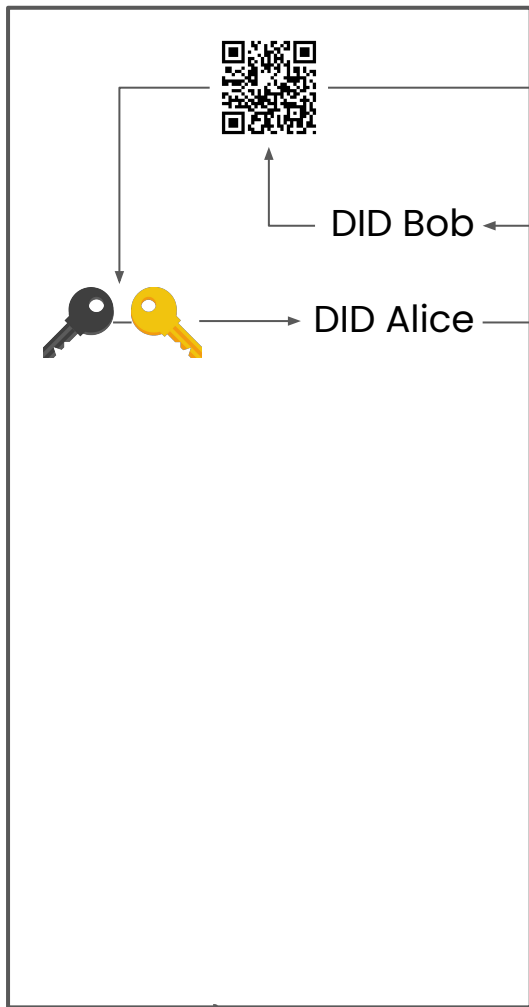
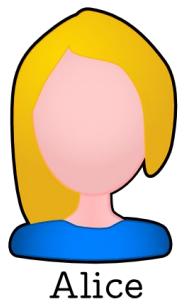
PGP VERIFIABLE+CREDENTIALS



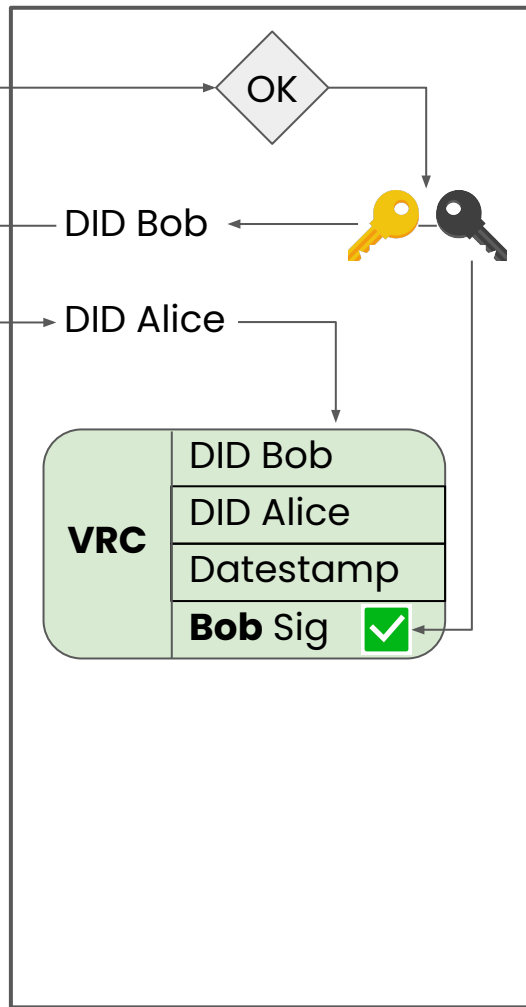
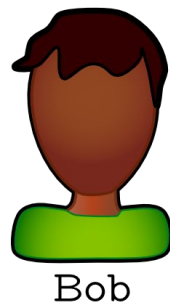
https://windley.com/archives/2025/04/establishing_first_person_digital_trust.shtml

Here is an illustration of how
Bob can **vouch** for Alice by
adding tags to his VRC.

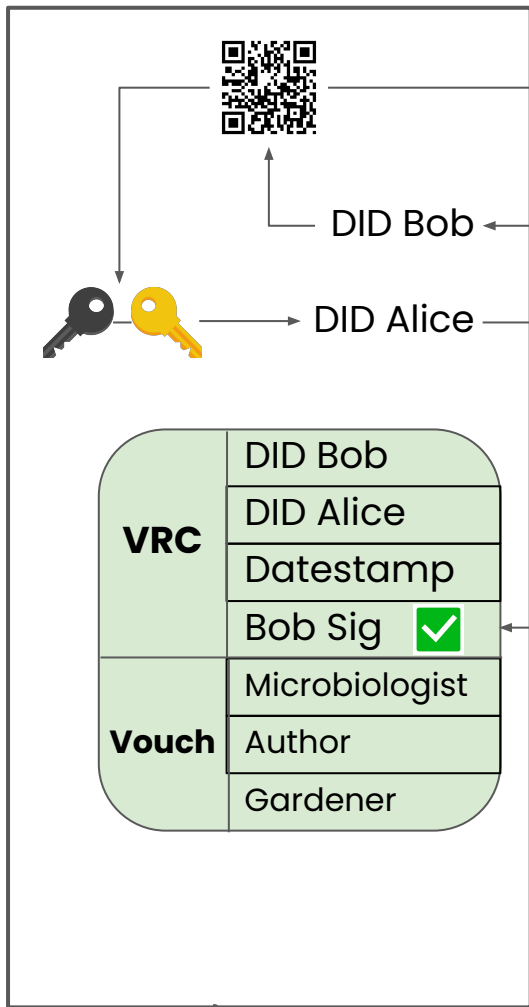
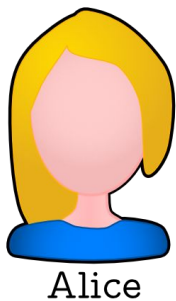
Alice's Wallet



Bob's Wallet



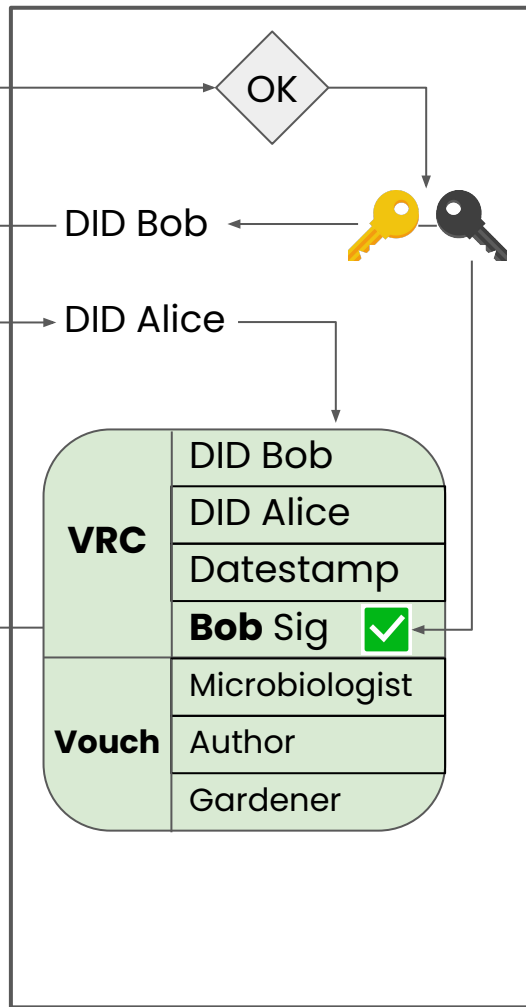
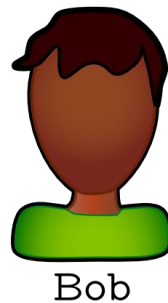
Alice's Wallet



Pairwise
private DIDs

issue

Bob's Wallet



Phil's blog post summarized it this way:

Summary

Key signing parties attempted to establish decentralized trust but they ultimately failed due to poor usability, lack of incentives, and shallow trust models. Verifiable Relationship Credentials (VRCs) provide a modern, peer-to-peer approach that enables actionable, contextual trust built on decentralized identifiers, and secure messaging. First-person identity emerges from direct connections that form relationships, mutual authentication, and portable, verifiable trust.

Next Steps

The First Person Project is currently a collaboration between the Ayra Association, LF Decentralized Trust, Trust Over IP (ToIP), and the Decentralized Identity Foundation. Work has started on setting up a new nonprofit organization.


We anticipate the first major
announcement of the
First Person Project will be at the
Global Digital Collaboration event.



Save the date
for the launch of the

Global Digital Collaboration

to foster wallets, credentials and trusted infrastructure
for the benefit of all humans

 July 1-2, 2025

 CICG Geneva, Switzerland



Hosted by the Swiss Confederation

A great deal of planning will
happen over the next 6 weeks
leading up to the GDC.

If you would like to be involved,
we invite you to join the
First Person Project mailing list.

- Home **Owner**
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- Drafts
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first-person-project@groups.io

This group is for members supporting formation of the First Person Project as a social utility for personal trust relationships. See the description of First Person Credentials in the Ayra Association white paper: <https://ayra.forum/ayra-network-effects-whitepaper/>

Group Information

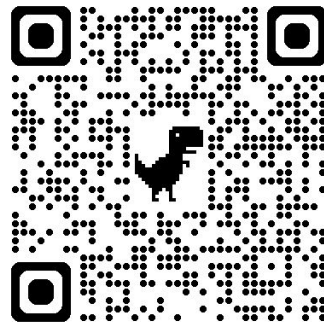
- 1 Member
- Started on 8:18pm
- [RSS Feed](#)

Group Email Addresses

Post: first-person-project@groups.io
Subscribe: first-person-project+subscribe@groups.io
Unsubscribe: first-person-project+unsubscribe@groups.io
Group Owner: first-person-project+owner@groups.io
Help: first-person-project+help@groups.io

Group Settings

- All members can post to the group.
- ✓ Posts to this group do not require approval from the moderators.
- Messages are set to reply to group.
- Subscriptions to this group require approval from the moderators.
- Archive is visible to anyone.
- Wiki is visible to members only.
- Members can edit their messages.
- Members can set their subscriptions to no email.



<https://groups.io/g/first-person-project>

Questions?

Thank you.