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Informatics Institute

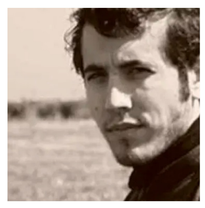
# Socially Intelligent Artificial Systems (SIAS)

## People


Arjan Vreeken


Erman Acar

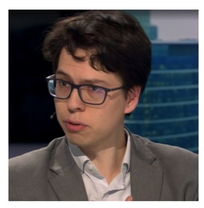

Fernando Santos


Giovanni Sileno

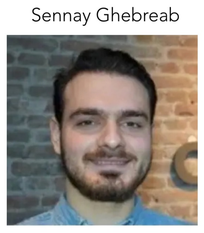

Gossa Lo

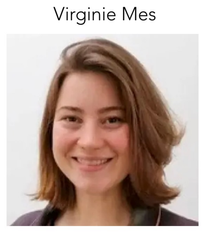

Sennay Ghebreab


Virginie Mes


Paul Verhagen


Marta Couto

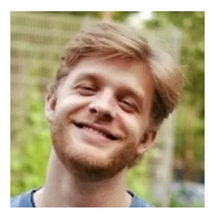

Dimitris Michailidis


Ilse van der Linden


Martin Smit

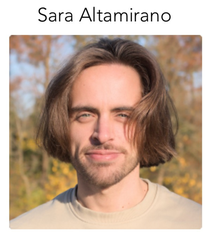

Mayesha Tasnim

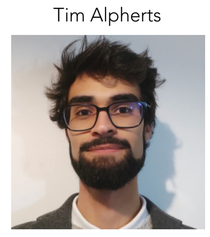

Sara Altamirano

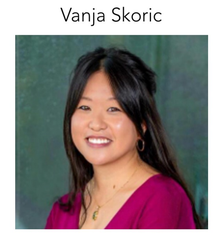

Tim Alpherts


Vanja Skoric


Angela van Sprang


João Fonseca


Alexandre Pires


Adia Lumadjeng

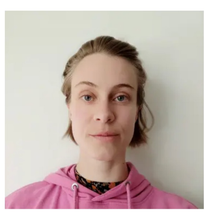

Laurens Samson


Madhura Pawar


Ece Erdem


Gabi Franco


Aida Kalender


Alexandra Barancová


Emma Beauxis-Aussalet


Jacco van Ossenbrugen


Diederik M. Roijers


Mirthe Dankloff


Ana Lucic

## Focus

The SIAS group focuses on civic-centered and community-minded artificial intelligence (AI) that aims to reduce inequality and promote equal opportunity in society.

The predominant question the group tries to answer:
*How can we use AI, and in particular learning systems, to advance society? And how can we do that in such a way that people from all corners of society benefit from it?*

## Challenges

- How can we build AI systems that **effectively prioritize** human values?
- How do we **cultivate and support** responsible innovation in AI development? Are we preparing and enabling the next generation to be **responsible innovators**?
- How do we **embed ethical and societal concerns** into technical education and algorithmic design practices?

## Work

Through AI research, education and valorization, we engage in incremental trust and value building with stakeholders across various domains, sectors and on topics that are relevant both socially and academically.

- **Better algorithms:** socially-grounded fairness measures, respecting and building on differences between people and communities
- **Better data:** narrative data, deploying large-scale data representing diverse people and communities
- **Better solutions:** custom-fit solutions, placing needs of people and communities at the center, instead of one-size-fits-all technology

- **Public-Public:** e.g. Civic AI lab, with City of Amsterdam and Ministry of Interior
- **Public-Civic:** e.g. CommuniCity, with engagement of hard to reach/marginalized communities
- **Public-Private:** e.g. AI4Fintech, with ING and other financial institutions

- **Prosocial AI:** e.g. equity, complexity, strategy, reciprocity
- **Responsible AI:** e.g responsibility, accountability, transparency, legality
- **Explainable AI:** e.g causality, interpretability, uncertainty