



UNIVERSITÉ
DE GENÈVE

GENEVA CENTRE
FOR PHILANTHROPY

unige.ch/philanthropy

PHILANTHROPY SERIES
Data-driven philanthropy,
hosted by Edmond de Rothschild Foundations Chair
in Behavioural Philanthropy
With Prof. Giuseppe Ugazio

FONDATION
HELENE & VICTOR
BARBOUR

 **EDMOND
DE ROTHSCHILD
FOUNDATIONS**

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LEENAARDS**

17  96
**LOMBARD ODIER
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Suisse**

 **SwissLife**
Stiftung Perspektiven

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Defining Behavioral Philanthropy

"A discipline that generates theoretical models that allow to generate mechanistic explanations of philanthropic behavior"
(Bernardic, ... & Ugazio, 2021)

Philanthropic behavior: voluntary giving of private resources for the common good

Modeling the role of three main components:

Moral
values

Financial
Motives

Emotional & Psychological
Processes

Teaching Philanthropy



Bachelor in Economics

- The Many Faces of Philanthropy



Master in Responsible Management

- Innovation and Philanthropy



Executive Education

- DAS/CAS Strategic and Operational Philanthropy
- Behavioral Finance and Philanthropy

Investigating Philanthropy

Behavioral/Neuro Economics and Finance

Cognitive Psychology

- How do we assign value to choice-options
with Berrada & Bossaerts, *in progress*; Bernardic & Lebreton, *in progress*; Ugazio et al., 2021
- How do moral values guide our behavior
with Mitali & Kruger, *in progress*; Lombard et al., *in progress*; Sooter & Gibson, *under review*; Sooter et al., *under review*
- What affects moral behavior
with Bernardic et al., *in progress*; Zucchelli & Ugazio 2019; Tudor et al. 2022; Sooter & Ugazio, 2023
- Using big data & AI to assist decisions
with Gomez, *in progress*; Carneiro et al., *in progress*; Tudor et al., *forthcoming 2023*; Maricic, *forthcoming 2024*
- How do we take risks
with Tugnoli et al., *in progress*

Big Data, Machine Learning, and AI

Emotions and Physiology

Thanks to the Behavioral Philanthropy Lab Team



Post-doctoral Researchers

Lucia Gomez
Anita Budziszewska

Bachelor - Master Students

Maria Tudor
Nicolas Piron
Nisa Thomas
Vinicius Marignac

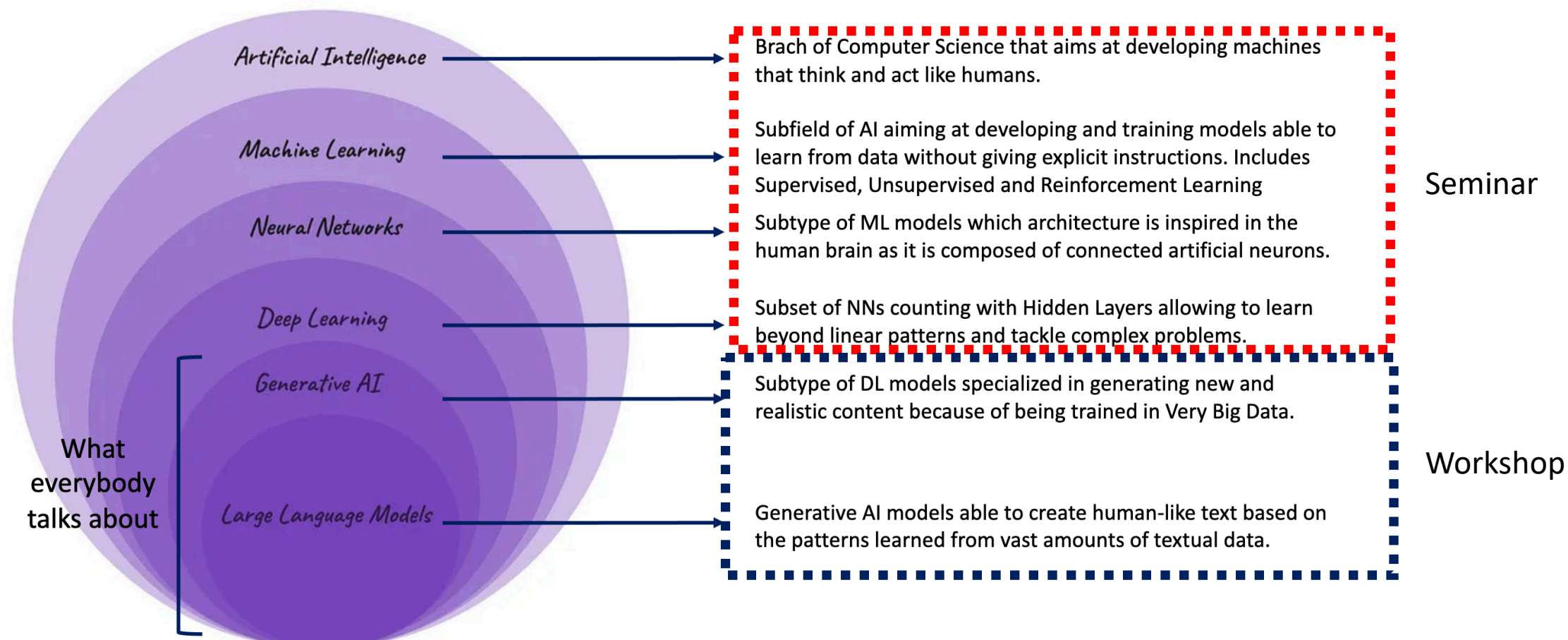
PhD Students

Nina Sooter
Teerawat Monnor
Hubert Halope
Camilla Della Giovampaola

Alumni

Ursa Bernardic, PhD
(now post-doc at ETH Zurich)
Carlos Rey
Marco Lourenco
Paulo Carneiro
Konstantin Toussas

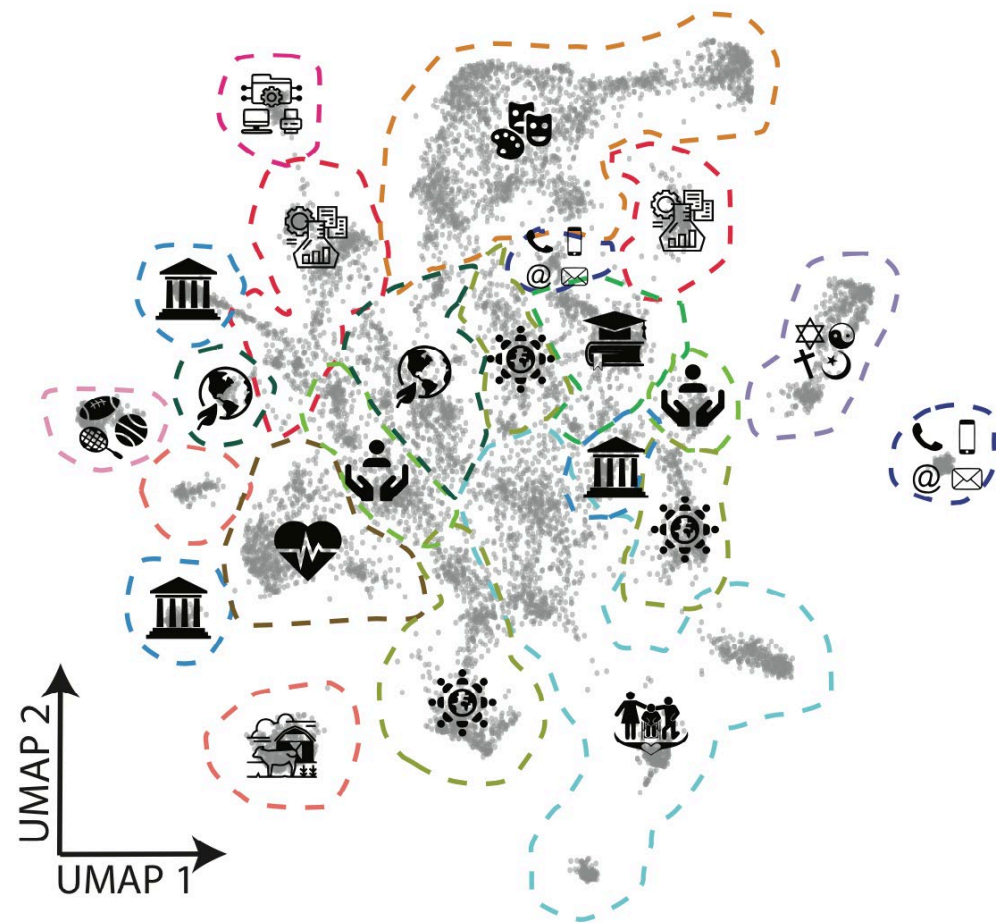
Big Data, Machine Learning, and AI



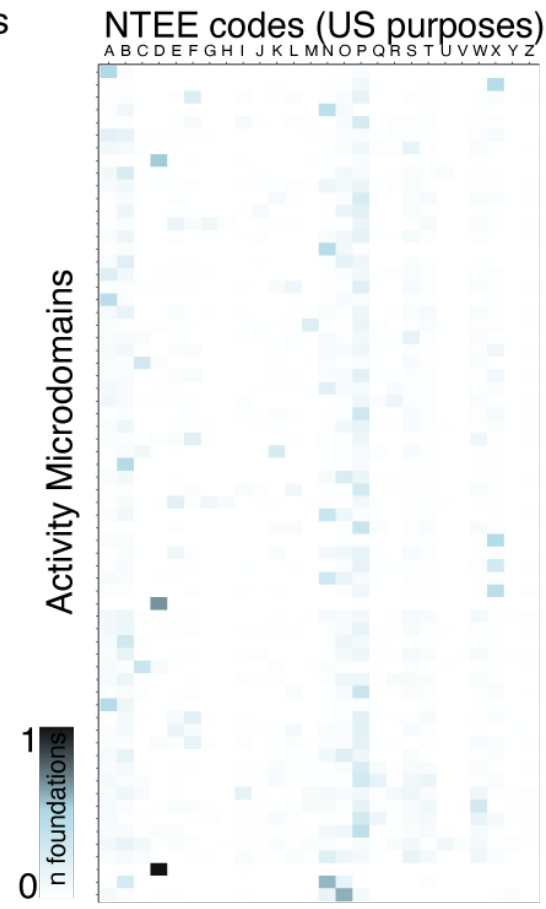
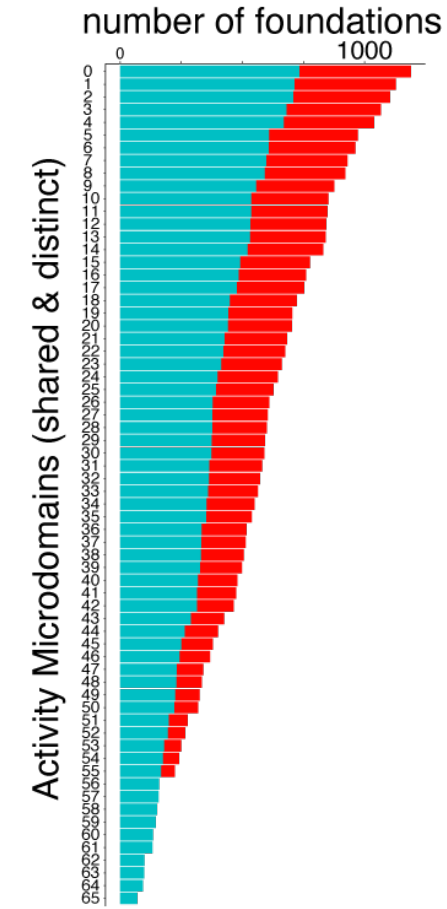
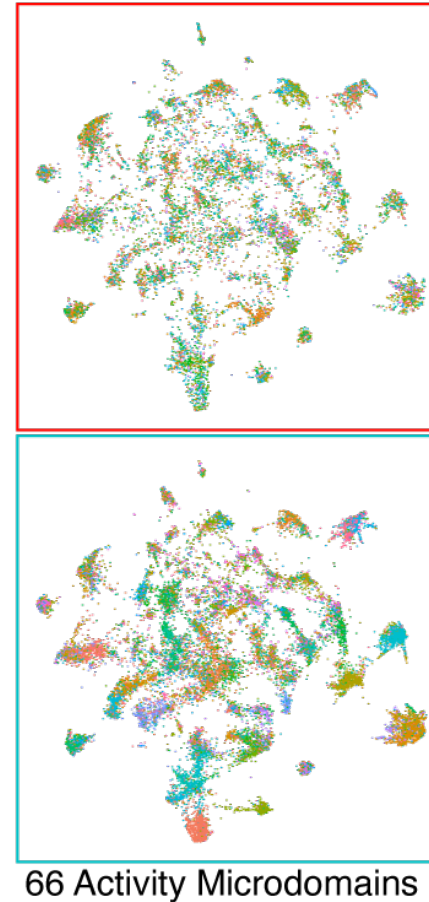
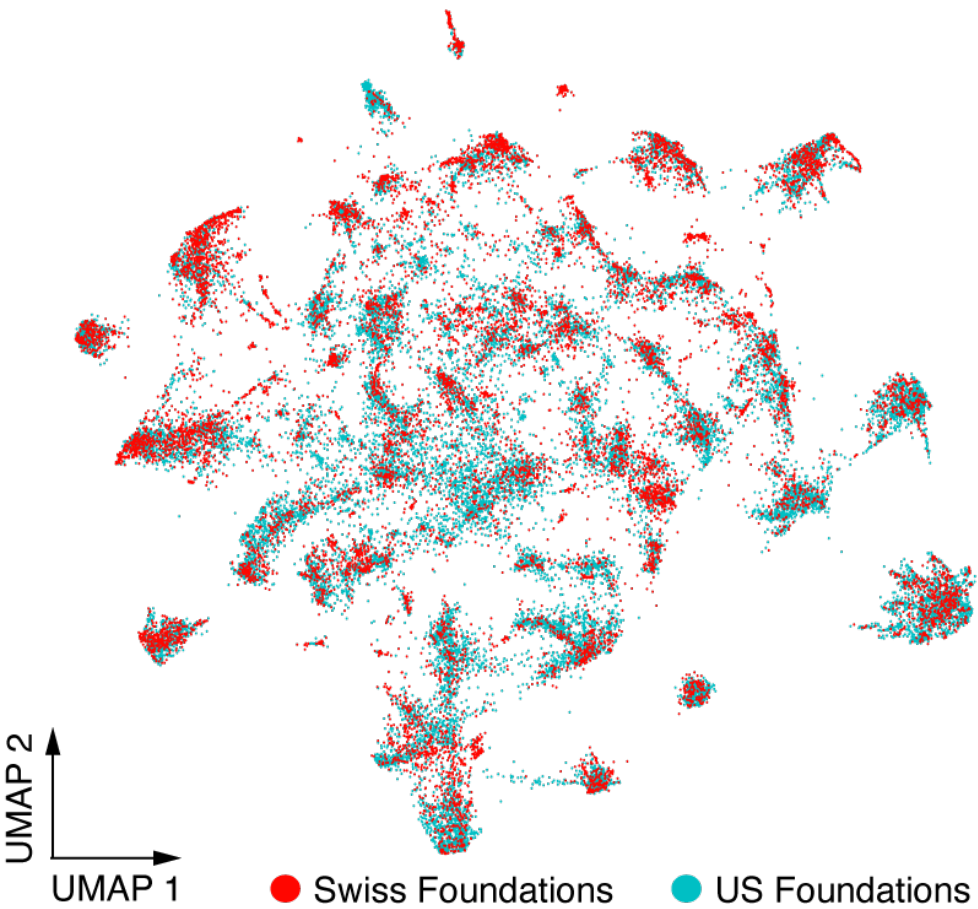
Mapping Swiss Philanthropy

Creating a Big Dataset

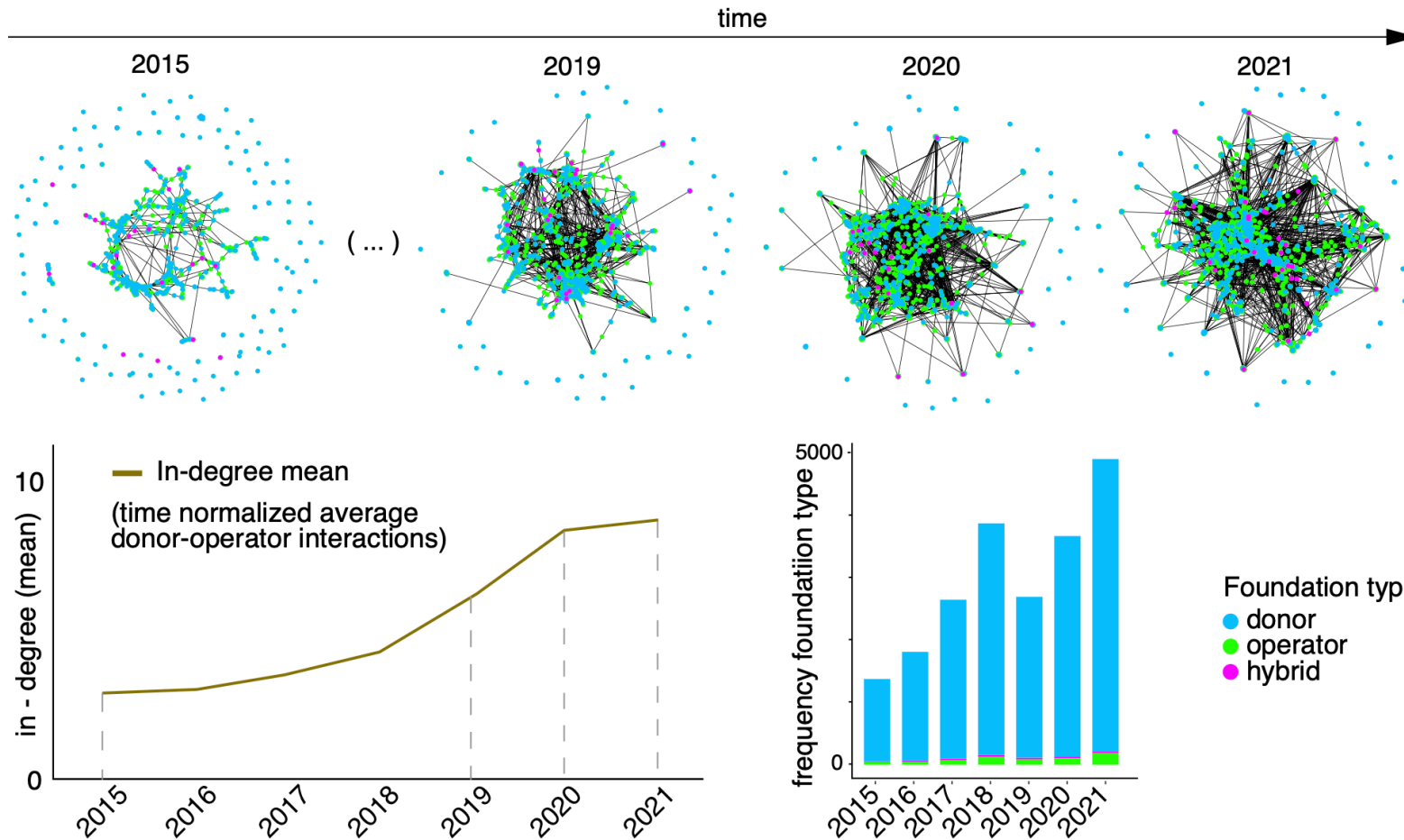
1. Collected mission statements from ≈ 13.000 POs
2. Data prepared to be analyzed for Natural Language Processing
3. Identified 19636 unique and meaningful words from 12766 POs



Mapping Philanthropy: Expanding the Dataset and Validating Results



Mapping Philanthropy: Identifying networks through financial interactions

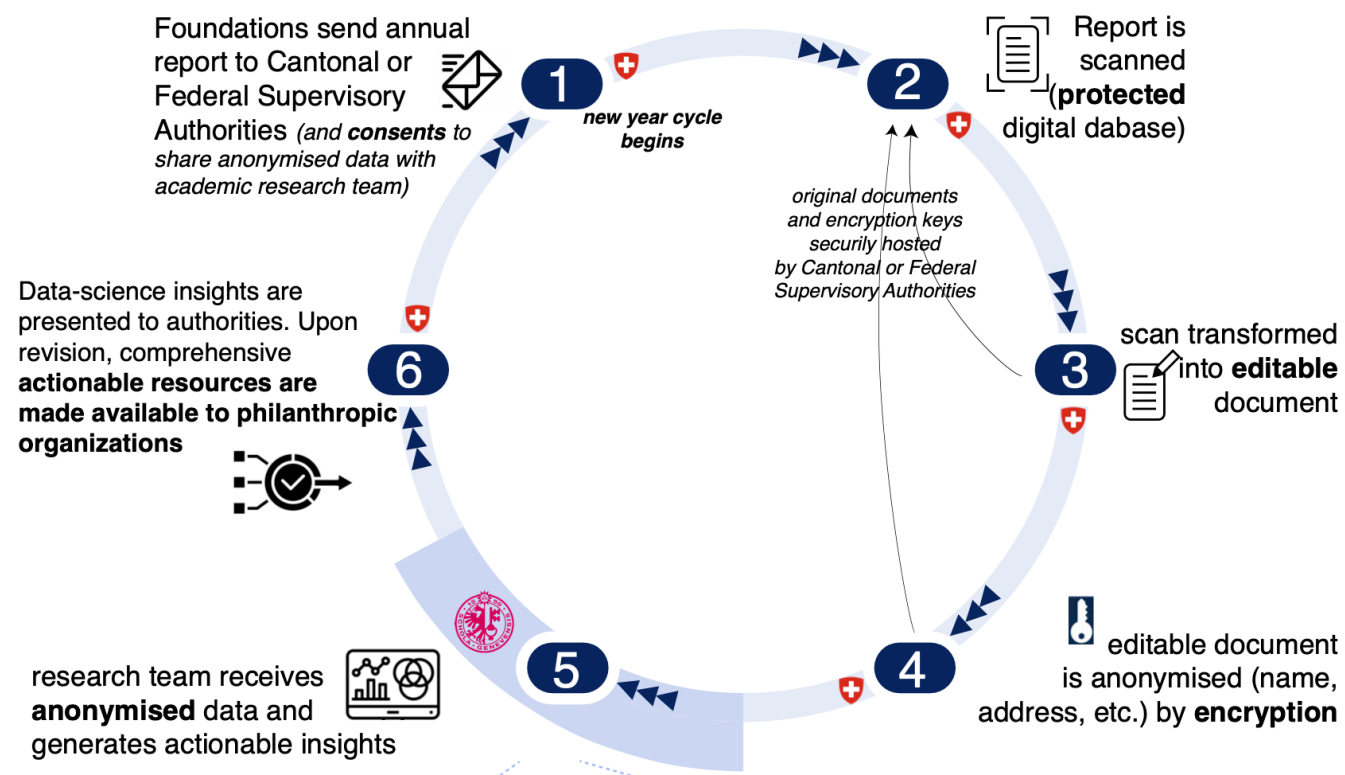


Detectable interactions
increase over time:

- More transparency/reporting?
- More transactions?

Improving the Map: join our endeavor!

Collecting and Analyzing annual reports to extract more accurate patterns in philanthropic operations



Modelling Giving through Big Data



Pre-processing Data

1'048'575 observations

Courtesy Titles

Baugeschaeft	Dr.	Dr. med.	Erbengemeinschaft	f
Fam.	Fmily	Hanflxe4nderweg	IMMO-11 GmbH	Mister
Messrs.	Michel	Mis	Miser	Mises
Miss	Missea	Missees	Misser	Mist
Mistre	Mkiss	Mkist	Mmiss	Monsieur
Mr	Mr.	Mr. and Ms.	Mrs	Ms
Ms.	Mses.	Msit	Msiut	none

Remove Duplicates
Remove Missing Values

497'965 Observations

Donors Gender Profiles

Male Female Family

Variables Selected

Donors (anonymized unique ID)

- Gender
- Geographical location
- Subscription to newsletter
- Number of donations
- Total amount given

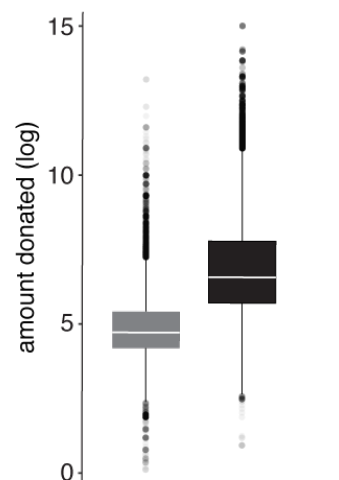
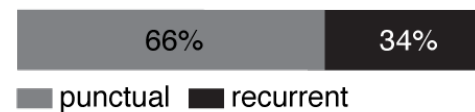
Donations:

- Amount
- Date
- Campaign attached (determined by date)
- Campaign Level

Descriptive Results – Donor Profiles

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Donor Regularity profiles

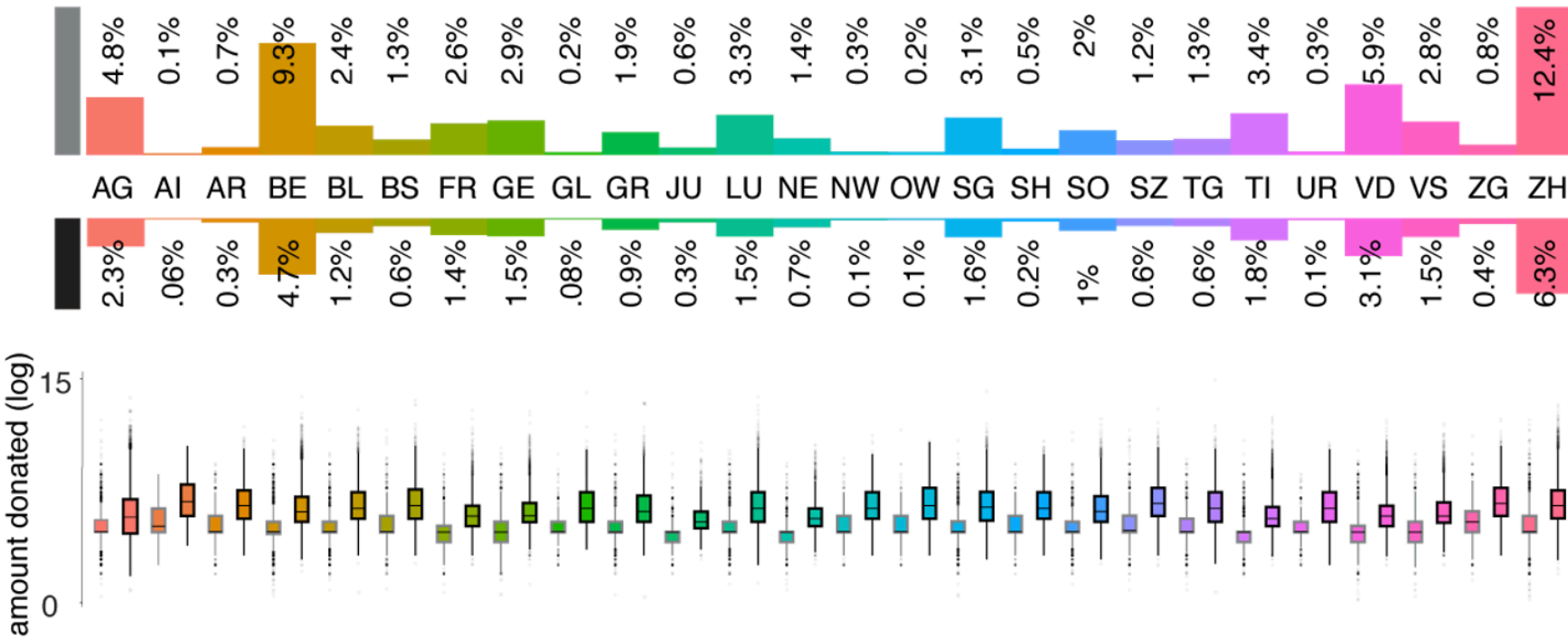


- More punctual donors than recurrent
- Larger amounts by recurrent than punctual donors
- More unsubscribed donors but similar amounts of gifts
- More Female donors but higher donations by males
- **We focus only on Punctual donors**

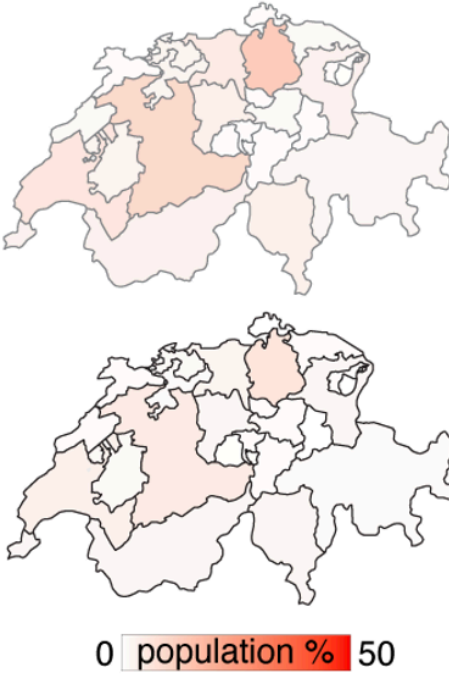
Descriptive Results – Donor Geolocation

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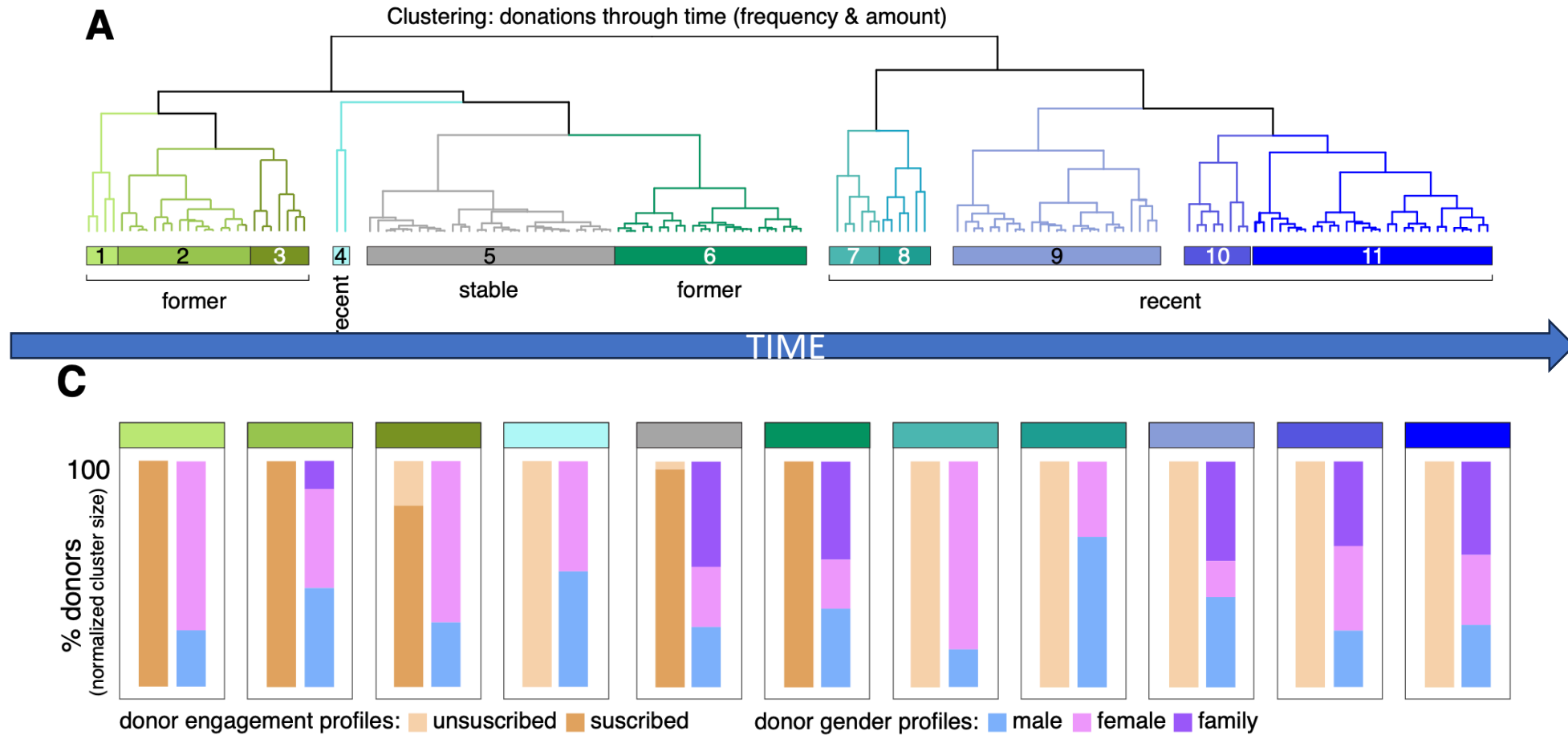
Donor Residence profiles



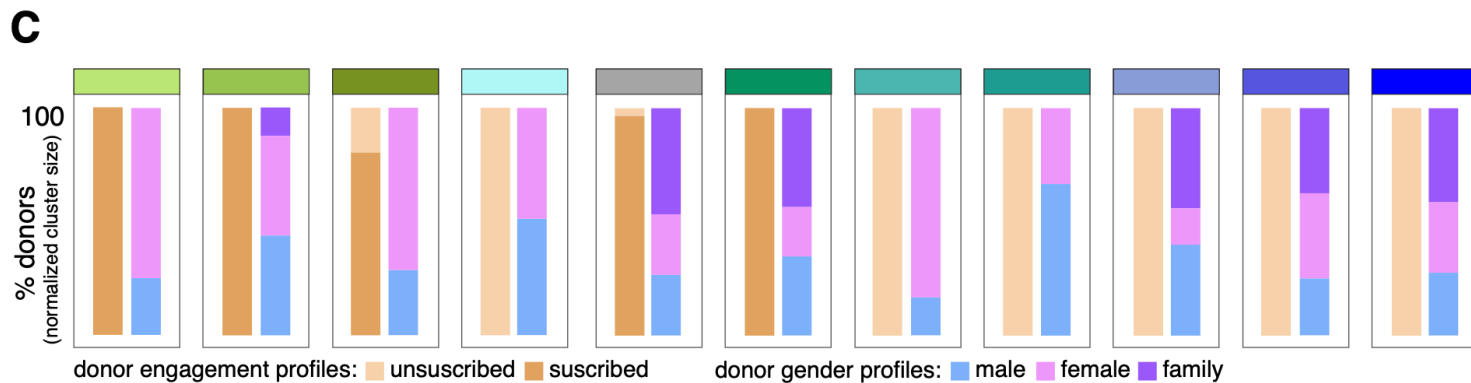
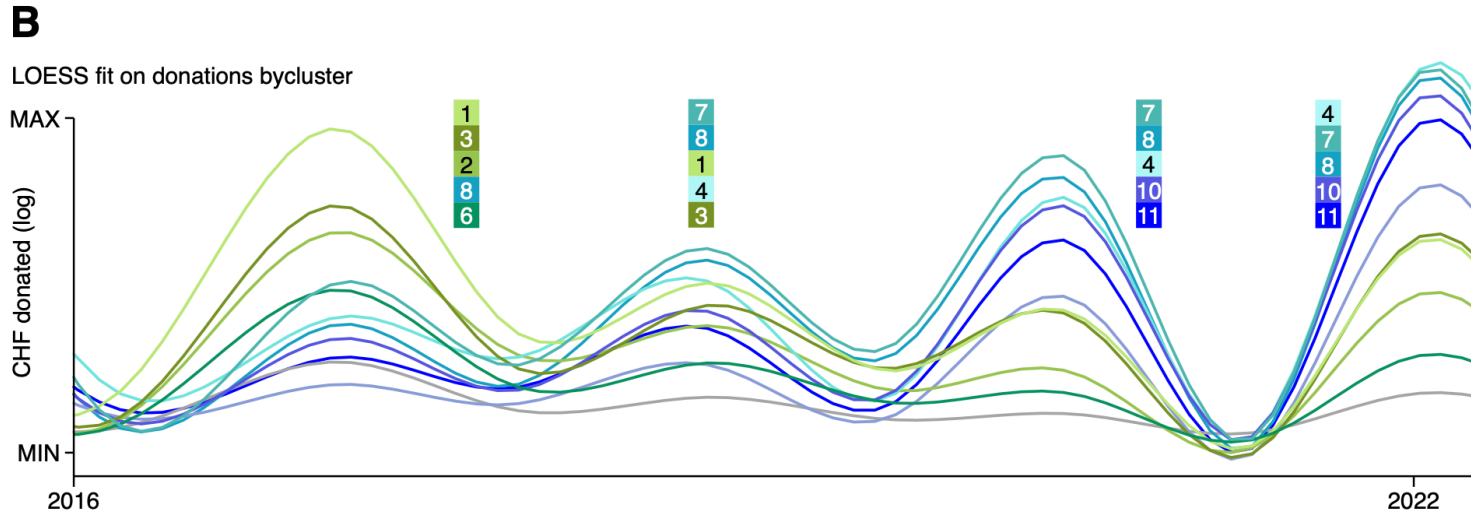
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Temporal clustering: three groups of givers

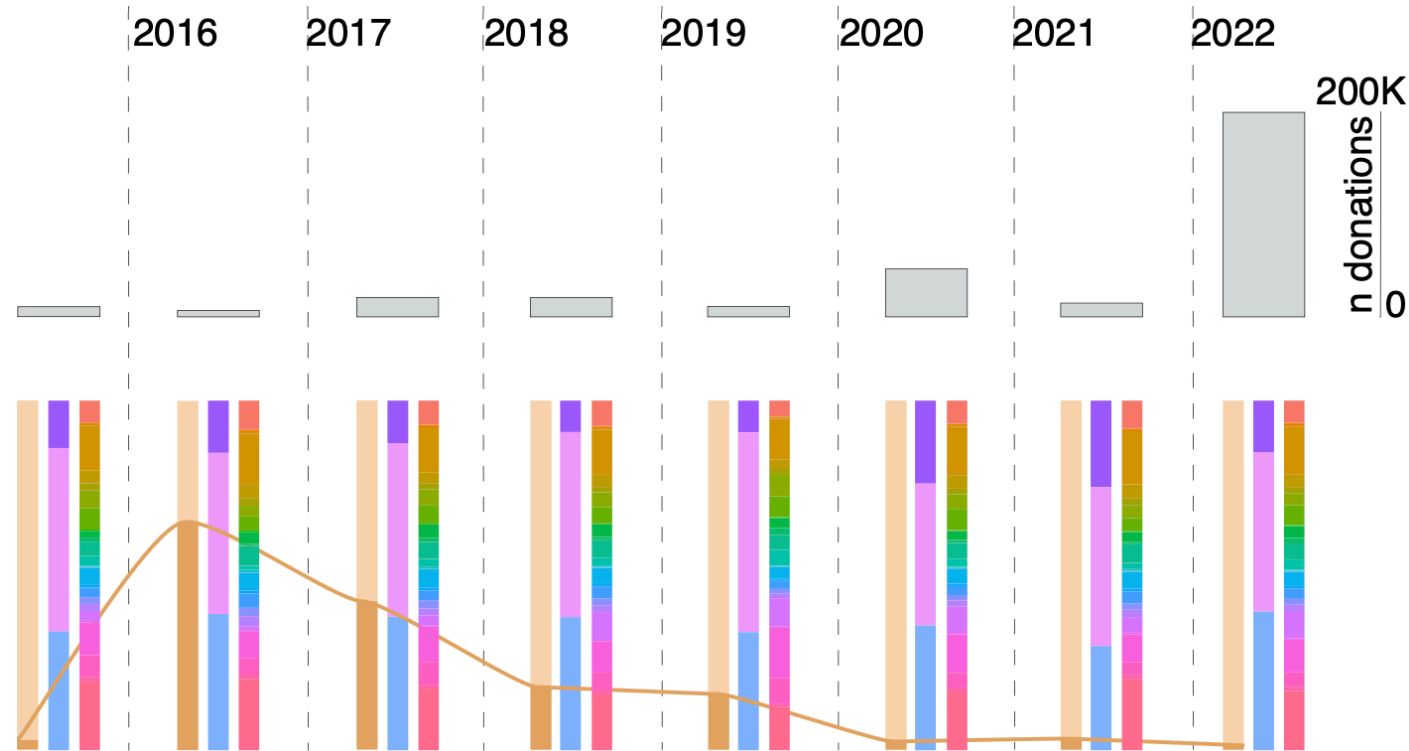


Temporal clustering: three groups of givers



- Stable Givers:
Subscribers and
Family
- Early Givers:
Subscribers and
Female
- Recent Givers:
Non-Subscribed mix
all genders

Descriptive Results: giving through time and regions

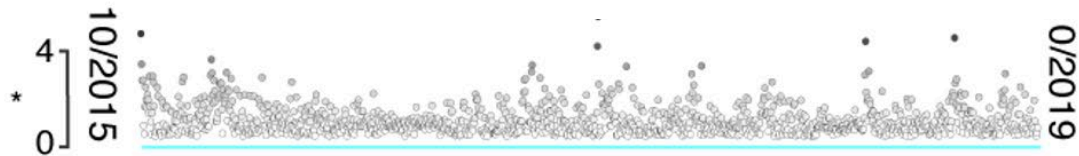


- Geographical origins of gifts evolve in time
- ZH residents constantly large donors

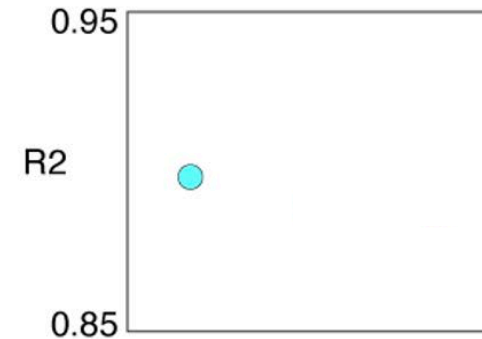
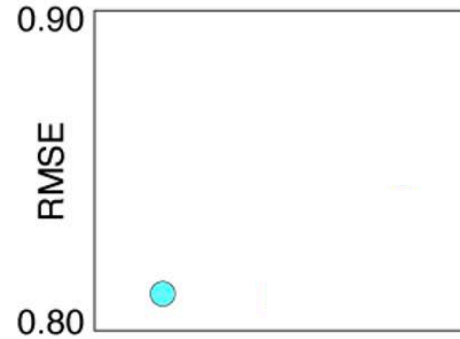
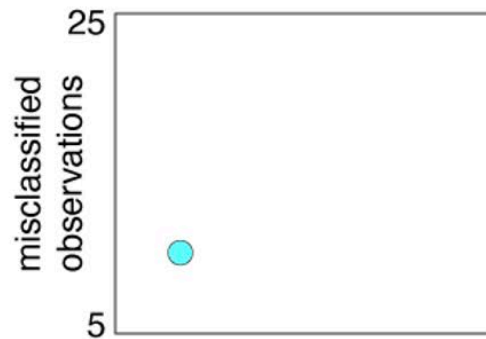
donor residence: AG AI AR BE BL BS FR GE GL GR JU LU NE NW OW SG SH SO SZ TG TI UR VD VS ZG ZH

Predicting Giving: Donors vary, amounts don't

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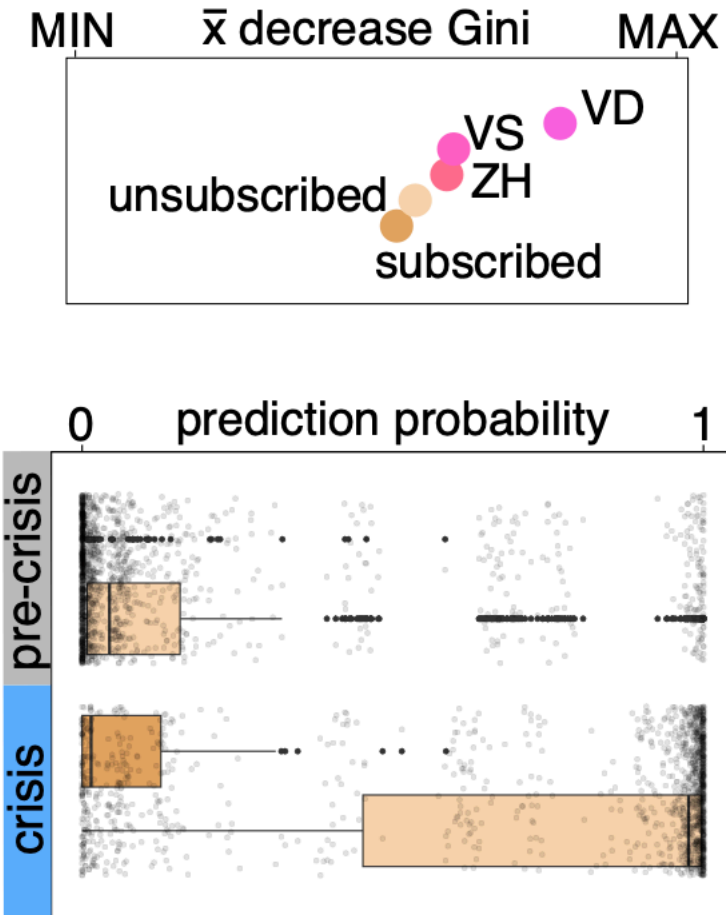
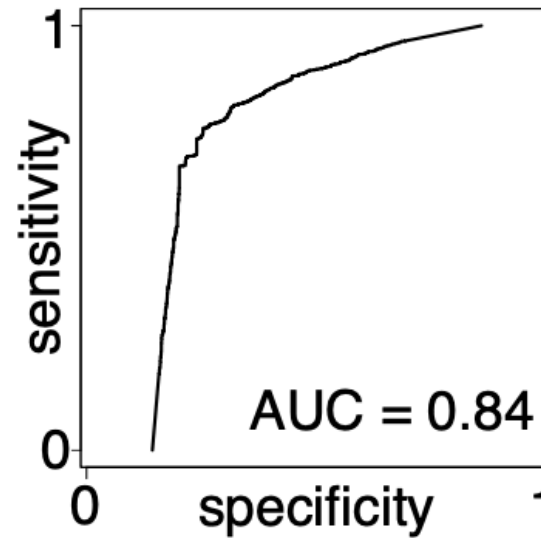
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- Amounts donated to Swiss Solidarity predictable
- Unless there is a “crisis”

Giving in times of Covid-19

		pre-crisis 11/19	crisis 06/20
ground truth	prediction		
		43% 13%	7% 37%

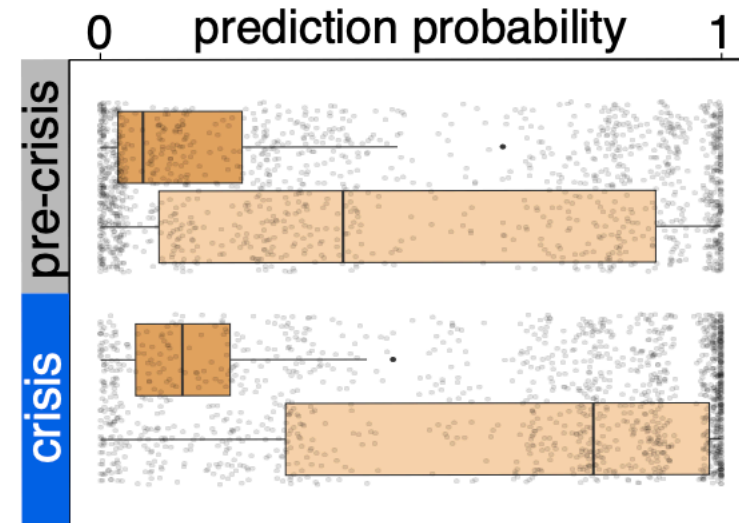
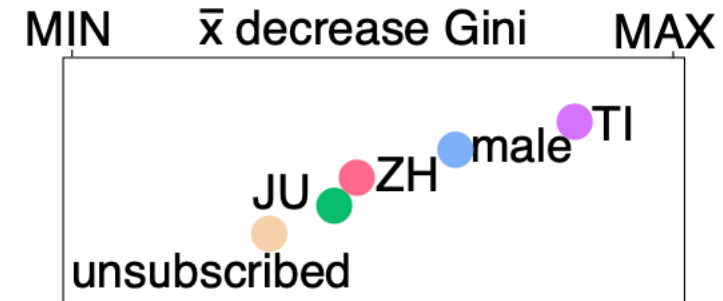
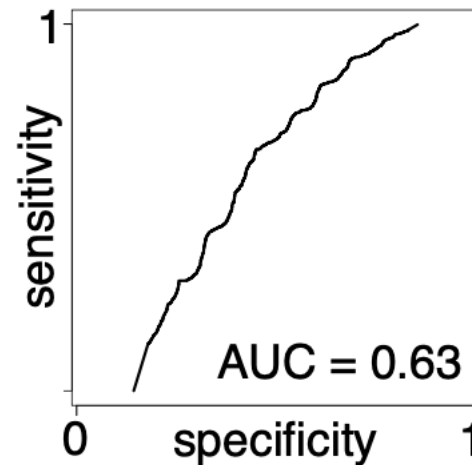


Giving in times of War in Ukraine

WAR CRISIS

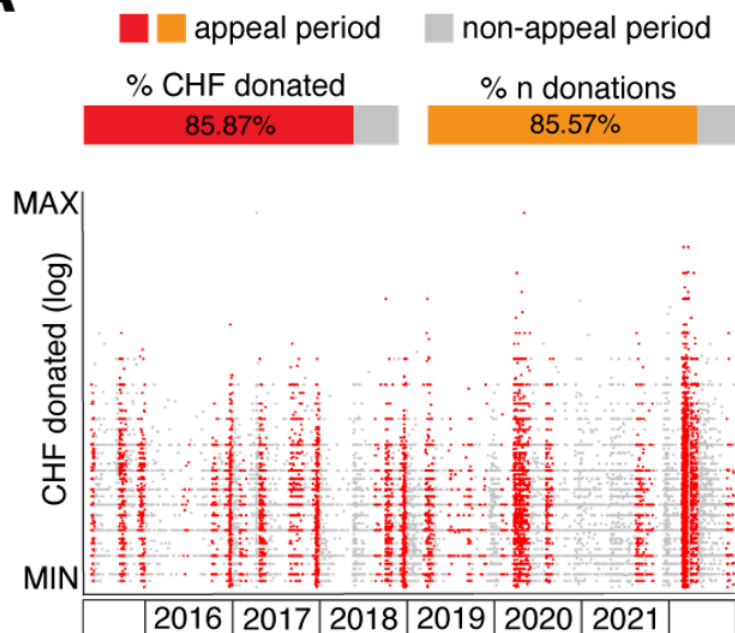
pre-crisis 11/21 crisis 05/22

		prediction	
ground truth	pre-crisis	28%	17%
	crisis	22%	33%

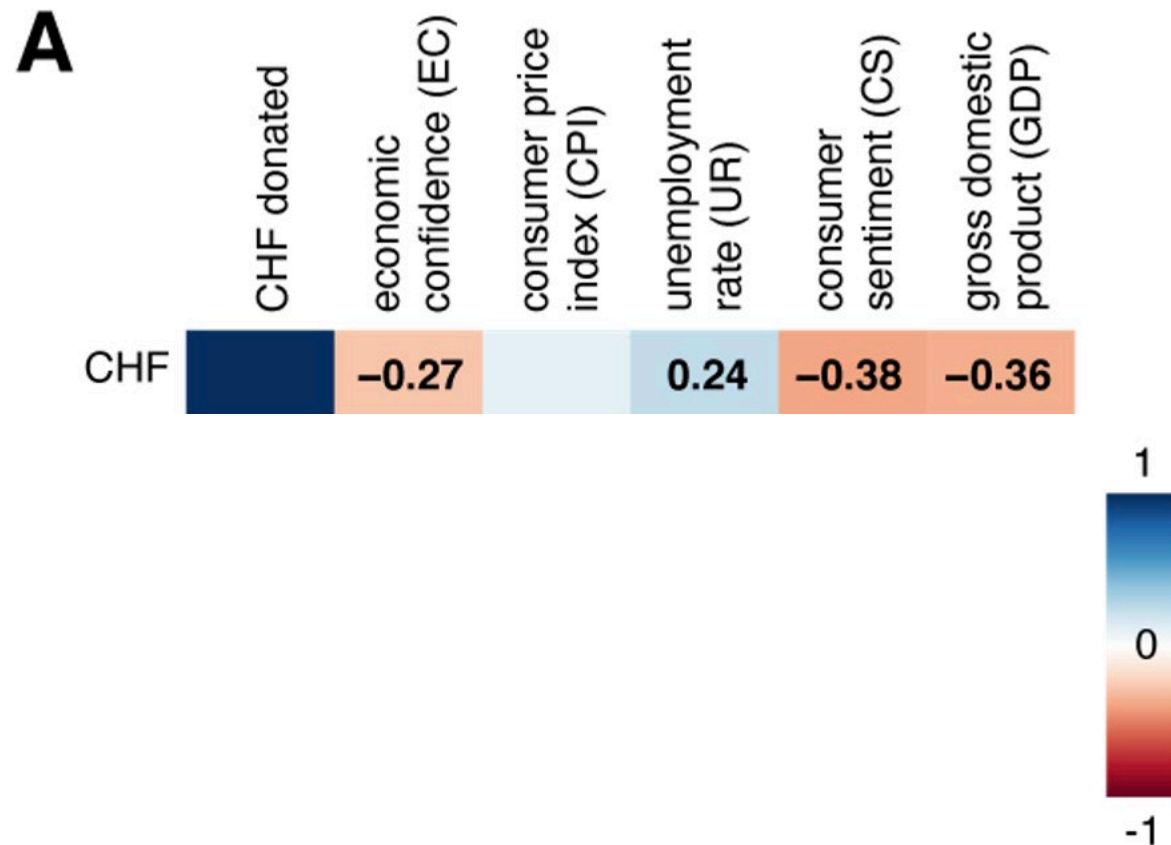


Donations are sensitive to appeals' strength

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Socio-economic trends and donations



- People give less when the macro-economic conditions are worse
- But surprisingly give more when unemployment is higher

Questions?

- **Data-driven decision-making:** Collecting and analyzing data on philanthropy is instrumental in optimizing operations and designing strategies.
- **Ride the Waves of Change:** Donor engagement is in constant evolution: who and when are equally important. Understanding the temporal fluctuations shaping the contributions of major societal charitable giving forces is crucial for informing and designing successful fundraising strategies.
- **Media-Magic:** Mass-media outreach is nowadays a very powerful strategy for attracting new donors whose values are aligned with specific philanthropic missions.

**THANK YOU FOR YOUR
ATTENTION**



EVALUATION

For those who will not be able to participate in the workshop, you can already complete the evaluation survey:

<https://unige.ch/-/philanthropy/29nov>

WORKSHOP

HOW TO USE LARGE LANGUAGE MODELS TO SUPPORT THE PHILANTHROPIC WORK

WORKSHOP

Prof. Giuseppe Ugazio,
Assistant Professor & holder of
the **Edmond de Rothschild
Foundations Chair in
Behavioural Philanthropy,**
GSEM, UNIGE

Dr. Lucia Gomez,
Behavioral Philanthropy
Lab, GFRI, GSEM, UNIGE

Nisa Thomas,
BSc in Computer Science,
UNIGE

CONCLUSION

EVALUATION

Please complete the evaluation survey:

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