



## Researchers' Profiles in the Finnish Research Information Hub - Research.fi

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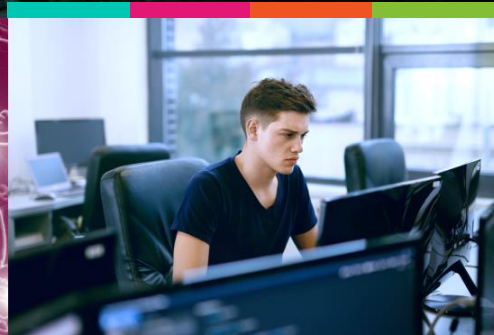
Hanna-Mari Puuska <https://orcid.org/0000-0001-5532-9274> CSC - IT Center for Science



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2. Researcher Profiles in Research.fi
3. Integrating ORCID and MyData Approach to the Sharing of Personal Information

# Research.fi - Background



# The Finnish Research Information Hub

- The National Research Information Hub project was launched in 2017
- Owned and financed by the Ministry of Education and Culture of Finland that has authorised the implementation to CSC – IT Center for Science Ltd.
- Information is publicly and freely available in [www.research.fi](http://www.research.fi) launched in 2020



**Research.fi**

Check  
it out!



## Search for information on research in Finland

Search target

For example, publication, field of science, keyword

SEARCH

Search help

Publications  
628 158People  
Coming soonProjects  
8 695Research data  
11 196Infrastructures  
156Other research activities  
Coming soonOrganizations  
77

## Science and research in Finland



## Figures on science and research

Read statistics on research personnel, funding and publishing.



## Latest research projects

See the latest research funding decisions



## Research and innovation system in Finland

What does the Finnish research system consist of?

## Latest science and research news

Luonnonvarakeskuksen tutkimusnavetan rakentamiseen aikaisiä Jokioisilla



09.05.2022

Luonnonvarakeskus

Väitös: Työhyvinvoinnin kehittäminen hankkeena voi auttaa työelämän muutoksissa



09.05.2022

Vaasan yliopisto

Opiskelijoiden läheiset vierailivat lääketieteellisessä tiedekunnassa



09.05.2022

Turun yliopisto

Terms of Use update May 23, 2022. Note: User Content deletion after CSC Project closure is changed



09.05.2022

CSC - Tieteen tietotekniikan keskus Oy

Savonia-artikkeli: Pelloilta polttoainetta tankkiin – tulevaisuuden ekoratkaisu



09.05.2022

## Open funding calls

Stipendiohjelmat maisteri- ja tohtoritason opintoihin/tutkimukseen Yhdysvaltoihin lukuvuodelle 2023-24!

Hakuaika päättyy 22.05.2022

Fulbright Finland Foundation

Tuki jatko-opintoihin ulkomailla

Hakuaika päättyy 31.05.2022

Jorma ja Märtha Sihvolan säätiö sr

Liike-elämän ja koulutuksen välinen yhteistyö

Hakuaika päättyy 31.05.2022

Suomen Liikemiesten Kauppaopiston Säätiö sr

Eino Jutikkalan rahaston apurahat

Hakuaika päättyy 31.05.2022

Suomalaisen Tiedeakatemian Eino Jutikkalan rahasto

Hilkka ja Otto Brusiinin Säätiön apurahat

Hakuaika päättyy 31.05.2022

Hilkka ja Otto Brusiinin Säätiö

Emil Öhmannin Säätiön apurahat

## Research.fi collects and disseminates information on Finnish research



- All information is harvested from external sources – no manual input
- Supports the highly decentralized landscape of systems (e.g. CRIS systems, funders)

Information type	Information sources
Publications	Research organizations
Funding decisions / grants	Funders
Funding calls	Funders
Research data	Research organizations, data services and repositories
Research infrastructures	Research organizations, infrastructure providers
Research news	Research organizations, funders, and other research supporting organizations
Researchers and other research Activities (coming in 2022)	Research organizations, researchers

# Aims of the Finnish Research Information Hub

R&D analytics  
Visualizations  
Business  
Intelligence  
Landscape

To describe the Finnish  
research ecosystem and  
act as an information  
base for science policy

To help to find Finnish  
research and researchers

Research.fi portal  
Semantic search  
Linked data

APIs  
Shared data  
model

To support the reuse of  
existing research  
information in other  
services and systems

To support the merit of  
researchers and increase  
the visibility of their  
research output and  
activities

Researcher's Profiles  
Traditional research outputs  
Other research activities

# Act on the Finnish Research Information Hub

- The Act on the Finnish Research Information Hub came into force in the beginning of 2022: <https://finlex.fi/fi/laki/alkup/2021/20211238>
- For information providers, the Act will be enabling, not binding
- The Act gives a legal basis for:
  - Integration of new source systems with light process
  - Data enrichment from external sources
  - Reuse of public information on outputs to research actors (=research performing, funding, or supporting organizations) through APIs
  - Transfer of information on affiliated researchers from research organizations to the Research Information Hub

# Researcher Profiles in Research.fi



# Researcher Profiles in Research.fi

- Next phase of Research.fi introduces researcher profiles - to be launched by the end of 2022
- Researchers generate the profile by using the Researcher's Profile tool
- The information to be included in the profile comes from ORCID and local CRIS systems
  - No manual input of data
- To be able to use the tool the user
  - must have an ORCID
  - Needs to e-authenticate with Suomi.fi (strong identification for e-services of public administration organisations in Finland)



Researcher's Profile

Beta

Log out

In English ▾

**Tuisku Tutkija**

0000-0001-5154-9368



+ Add public profile picture

Public profile - Draft

Publish...

Discard changes...

Description of research activities

Edit

Test notification

Keywords

history of Finland, aerosols, digitalization, internal medicine

Description

FI  
Tutkimuksen kuvausta suomeksi. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

EN  
Description of my research in English. Duis ullamcorper sem in sapien pretium bibendum. Vestibulum ex dui, volutpat commodo condimentum sed, lobortis at justo.

SV  
Beskrivning av forskningen på svenska. Fusce in lorem tempor, feugiat nunc ut, consectetur erat. Integer purus sem, hendrerit at bibendum vel, laoreet nec tellus.

Affiliations

You have not yet selected the information to be displayed publicly

Select

Contact information

Edit

<https://tutkijanomaverkkosivu.yliopisto.fi>  
 <http://tuiskututkija.linkedin.com>

Cooperation

You have not yet selected the information to be displayed publicly

Select

# Researcher's Perspective

## Information to be chosen from

- My own ORCID profile
- Home organisation's system
- Information from Research.fi

## Choose profile information

Login via  
Suomi.fi  
and  
ORCID

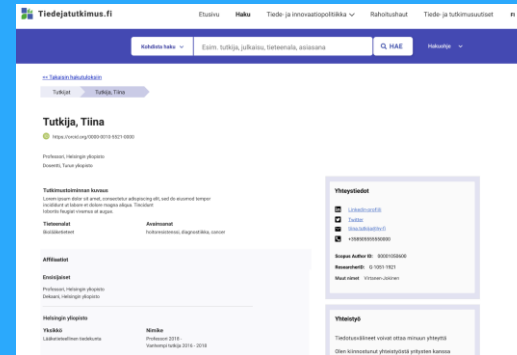
Publish  
my  
profile

Consent for  
the reuse of  
my  
information

## Consent for e.g.

- Prefilled information to funder's applications
- Contact information for media or cooperation

## Published profile available in Research.fi



The screenshot shows a web browser displaying a profile page on the Research.fi website. The profile is for a researcher named Tiina, with a green ORCID icon and ID. The page is divided into sections: 'Tutkija, Tiina' (Researcher, Tiina), 'Tutkimuskeskukset' (Research centers), 'Affiliations', 'Employment', 'Publications', and 'Other information'. The 'Tutkimuskeskukset' section lists the University of Jyväskylä and the Finnish Institute of Occupational Health. The 'Affiliations' section lists the University of Jyväskylä. The 'Employment' section lists the University of Jyväskylä. The 'Publications' section lists the University of Jyväskylä. The 'Other information' section lists the University of Jyväskylä. The page also includes a search bar at the top and a navigation menu.

# Contents of the Researcher's Profile


Researcher can  
decide on  
publicity

- Name(s), contact details
- Description of research subjects, keywords, fields of science
- Affiliations and titles
- Education and degrees
- Other research activities and merits (e.g. expert positions, memberships, and rewards)
- Publications, research data, projects

Public by default



# Tuisku Tutkija

 0000-0001-5154-9368



+ Add public profile picture

Public profile - Draft

## Description of research activities

## Keywords

history of Finland, aerosols, digitalization, inter

## Description

FI

Tutkimuksen kuvausta suomeksi. Lorem ipsum

EN

Description of my research in English. Duis ut  
ex dui, volutpat commodo condimentum sed,

SV

Beskrivning av forskningen på svenska. Fusc  
Integer purus sem, hendrerit at bibendum vel,

## Affiliations

You have  
informa

## Affiliations

 Select all

 Close

Select the information to display in your profile

☒ **Akatemiatutkija**  
Yliopisto A  
2020 -

Yliopisto A

**Primary**

☐ **Erikoistutkija**  
Tutkimuslaitos X  
2016 - 2019

Tutkimuslaitos X

[Set as primary](#)

☐ **Tutkija**  
Oulun Yliopisto  
2019 - 2021

ORCID

[Set as primary](#)

☐ **Opettaja**  
Helsingin Yliopisto  
2016 - 2016

ORCID

[Set as primary](#)

**Publish...**

Discard changes...

**Edit**

[tutkimuskeskus.fi](#)

[a.linkedin.com](#)

ected the information to be

The user can choose which information and from which sources he/she wants to display in the public profile

Kohdistu haku ▾

Esim. tutkija, julkaisu, tieteenala, asiasana

Q HAE

Hakuohje ▾

Julkaisut  
116 952Tutkijat  
95 761Hankkeet  
1622Tutkimusaineistot  
999Infrastruktuurit  
999Muu tutkimustoiminta  
999Organisaatiot  
69

Tutkijat - 6993

[Näytä hakutulokset visualisaatioina](#)[Mitä tutkijoiden tietoja palvelu sisältää?](#)

RAJAA HAKUA

— Organisaatio ⓘ

Yliopisto ▾

Ammattikorkeakoulu ▾

Yliopistollisen sairaalan  
erityisvastuualue ▾

Tutkimuslaitos ▾

— Tieteenala ⓘ

Luonnontieteet ▾

Tekniikka ▾

Lääke- ja terveystieteet ▾

Maatalous- ja metsätieteet ▾

Yhteiskuntatieteet ▾

Humanistiset tieteet ▾

TUTKIJAN NIMI ▾

ORGANISAATIO ▾

AVAINSANAT ▾

TIETEENALAT ▾



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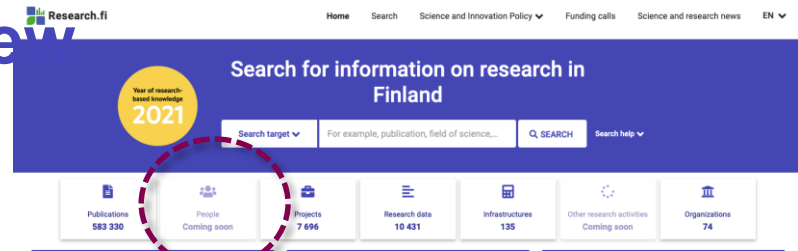
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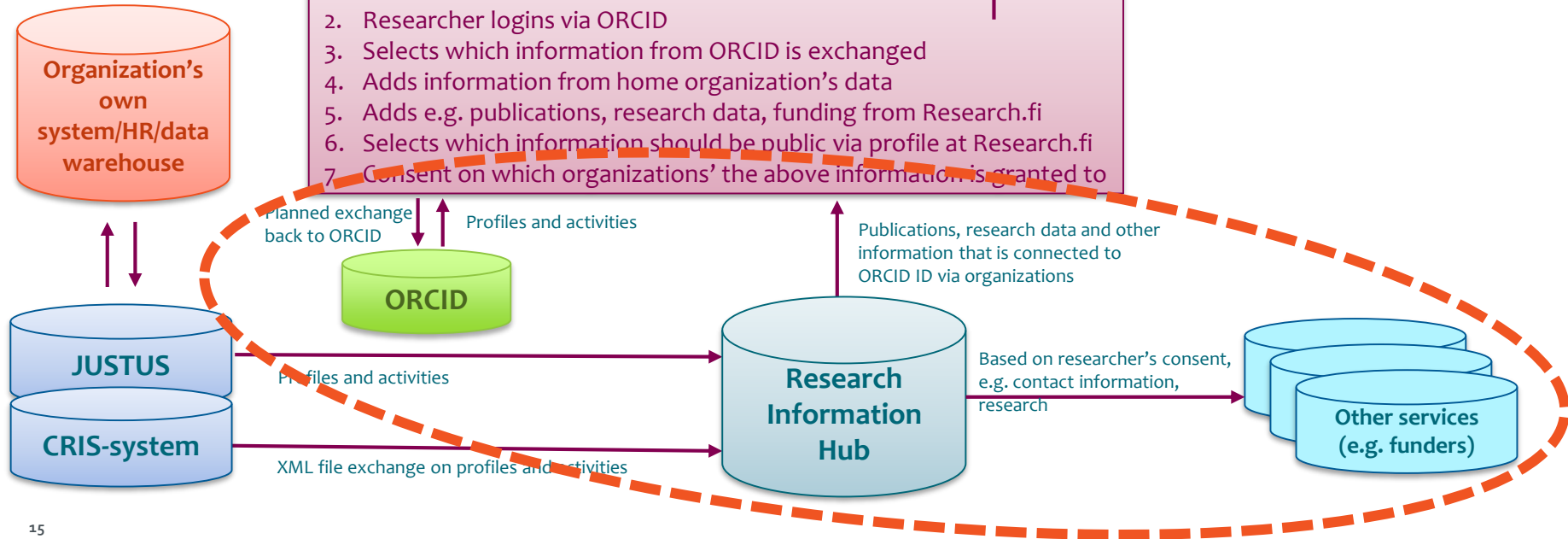
The profile  
search in  
Research.fi

# Researchers' Profiles – overview



## Researcher's Profile -tool

1. Researcher authenticates via Suomi.fi e-authentication
2. Researcher logs in via ORCID
3. Selects which information from ORCID is exchanged
4. Adds information from home organization's data
5. Adds e.g. publications, research data, funding from Research.fi
6. Selects which information should be public via profile at Research.fi
7. Consent on which organizations' the above information is granted to

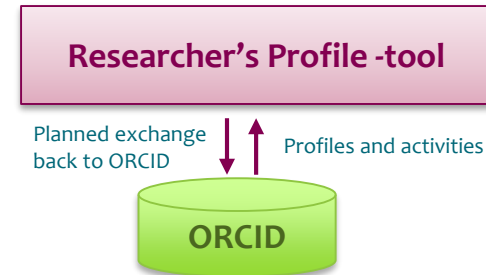


# Integrating ORCID and MyData Approach to the Sharing of Personal Information



# Integrating ORCID

- ORCID identified as key component early on in the technical planning phase
  - Only way to both 1) identify researchers through various source systems and 2) yet make the profile fully controllable by the researcher themselves (compared to e.g. local IDs, top-down assigned researcher IDs or other formal IDs)
- Tasks included e.g.:
  - Mapping of ORCID records to the national data model (which is made interoperable with organizational CRIS systems as well)
  - Implementing ORCID login and exchange of information in the Researcher's Profile tool – by using the ORCID Member-API
- Later development phase aims to exchange information two-way - possibility for export researcher's profile information from Research.fi to ORCID, e.g.
  - Up to date information on researchers by their permission
  - Small funders and foundations that often lack resources for integration
  - Other cases where local systems are not harvested to ORCID in any other way



## Researcher's MyData in Research.fi

“The term MyData refers to: 1) a new approach, a paradigm shift in personal data management and processing that seeks to transform the current organisation-centric system to a human-centric system; 2) personal data as a resource that the individual can access and control”

<https://www.sitra.fi/en/dictionary/mydata/>

- Creating a profile at Research.fi is completely voluntary for researchers.
  - The researchers can decide what information they want to publish about themselves
  - The researchers may authorize the disclosure of the information to any party they want, such as funders or other researchers' services
- > Emphasizing the "My" in MyData

# Research Information Hub and reuse of profile information

- Major development has been put into building external API for Research Information Hub
  - REST based solution is to be piloted in 2022
- Great interest especially in utilizing the researcher based information from both research actors (e.g. universities, funders) and third parties (i.e. companies)



# Consent and process of sharing personal information via APIs

- Each actor wanting to use personal data on researchers must provide information on the intended use while applying for API use
  - These actors and information on intended use are provided to each individual in the Researcher's Profile tool
- Based on this information, a researcher can consent just parts (e.g. contact information) or all personal information to these actors
- Information authorized for access by the researcher is then applied to external API for immediate access by the external actor

## Jakaminen

Maija Virtanen  
1234 5678 9012 3456

Kohteet, joille minun tutkijan tiedot -profiilini jaetaan

Tässä näkyvässä voit hallinnoida kohteita, joille jaetaan Tutkijan tiedot -profiilisi. Muille kohteille kuin tiedejatutkimus.fi profiili jaetaan datamuodossa rajapinnan kautta.

tiedejatutkimus.fi

Käytössä

Organisaatio X

Käytössä

Poista...

Palvelu Y

Käytössä

Poista...

Hae lisää kohteita

Voit lisätä kohteita, joille profiilisi jaetaan.

View on controlling the actors with access to personal infromation

Detailed view of which information is shared to which actor via API

## Tiedot ja tietolähteet

Maija Virtanen  
1234 5678 9012 3456

Rajaa

Tila profiilissa

☐ Julkinen

☐ Ei julkinen

Tietokokonaisuus

☐ Yhteystiedot

☐ Tutkimustoiminta

☐ Yhteystiedot

☐ Affiliaatiot

☐ Koulutus

☐ Julkaisut

☐ Tutkimusaineistot

☐ Hankkeet

☐ Aktiiviteetit ja palkinnot

Lähde

☐ Orcid

☐ Helsingin yliopisto

☐ Turun yliopisto

58 valittu

Aseta julkiseksi Tiedejatutkimus.fi:ssä

Piilota Tiedejatutkimus.fi:ssä

Jaa kohteille...

	Tieto	Sisältö	Tiedejatutkimus.fi	Lähde	Jakaminen
<input checked="" type="checkbox"/>	Nimi		Julkinen		1 valittu
<input type="checkbox"/>	Muut nimet	Näytä	Ei julkinen		1 valittu
<input type="checkbox"/>	Muut nimet	Näytä	Ei julkinen		1 valittu
<input type="checkbox"/>	Muut nimet	Näytä	Ei julkinen		1 valittu
<input checked="" type="checkbox"/>	Sähköpostiosoite	Näytä	Ei julkinen		1 valittu
<input checked="" type="checkbox"/>	Sähköpostiosoite	Näytä	Ei julkinen		1 valittu
<input checked="" type="checkbox"/>	Sähköpostiosoite	Näytä	Julkinen		2 valittu
<input checked="" type="checkbox"/>	Puhelinnumero	Näytä	Ei julkinen		
<input type="checkbox"/>	Linkit	Näytä	Ei julkinen		
<input type="checkbox"/>	Kuvaus	Näytä	Ei julkinen		1 valittu
<input type="checkbox"/>	Avainsanat	Näytä	Julkinen		1 valittu
<input type="checkbox"/>	Affiliaatio	Näytä	Julkinen		3 valittu

tiedejatutkimus.fi  
Organisaatio X  
Palvelu Y



Thank you!

More information:

[www.research.fi](http://www.research.fi)

[www.csc.fi/tutkimustietovaranto](http://www.csc.fi/tutkimustietovaranto)  
[tiedejatutkimus@csc.fi](mailto:tiedejatutkimus@csc.fi)

[joonas.nikkanen@csc.fi](mailto:joonas.nikkanen@csc.fi)  
[hanna-mari.puuska@csc.fi](mailto:hanna-mari.puuska@csc.fi)



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[github.com/CSCfi](https://github.com/CSCfi)