Researchers’ Profiles in the Finnish Research Information Hub - Research.fi

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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 launched in 2020
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

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

To help to find Finnish research and researchers

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

R&D analytics
Visualizations
Business Intelligence
Landscape

APIs
Shared data model

Research.fi portal
Semantic search
Linked data

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:
  
  o Integration of new source systems with light process
  o Data enrichment from external sources
  o Reuse of public information on outputs to research actors (=research performing, funding, or supporting organizations) through APIs
  o 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)
Consent for e.g.
- Prefilled information to funder’s applications
- Contact information for media or cooperation

Published profile available in Research.fi

Choose profile information

Login via Suomi.fi and ORCID

Publish my profile

Information to be chosen from
- My own ORCID profile
- Home organisation’s system
- Information from Research.fi

Consent for the reuse of my information

Researcher’s Perspective
Contents of the Researcher’s Profile

- 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

Researcher can decide on publicity

Public by default
The user can choose which information and from which sources he/she wants to display in the public profile.
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. Consents on which organizations’ the above information is granted to

Profile exchange
- Planned exchange back to ORCID
- Based on researcher’s consent, e.g. contact information, research
- XML file exchange on profiles and activities

Organizations’ profile exchange
- Publications, research data and other information that is connected to ORCID ID via organizations

Profiles and activities
- Profiles and activities

Research Information Hub

ORCID

JUSTUS

CRIS-system

Organization’s own system/HR/data warehouse

Other services (e.g. funders)
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
  o Only way to both 1) identify researches 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.:
  o Mapping of ORCID records to the national data model (which is made interoperable with organizational CRIS systems as well)
  o 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.
  o Up to date information on researchers by their permission
  o Small funders and foundations that often lack resources for integration
  o 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
  o 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
**View on controlling the actors with access to personal information**

Detailed view of which information is shared to which actor via API.
Thank you!

More information:

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