

Profiles Research Networking Software¹

Overview

Profiles Research Networking Software is an open source research networking and expertise mining website developed for Harvard's Clinical and Translational Science center. It begins with traditional researcher profiles containing investigators' names, titles, contact information, photos, awards, education, teaching, research narratives, and publications. **Passive Networks** are formed automatically when faculty share common traits such as being in the same department, working in the same building co-authoring the same paper, or researching the same topics. Users can create **Active Networks** by selecting researchers they know and defining their relationships to these people.

Recombinant Data Corp. is an authorized support provider for the Profiles Research Networking Software.

Key Features

Easy Site Setup

- Integration with institutional Human Resources systems
- Multiple methods for user authentication
- Customizable site configuration and look-and-feel
- Geomapping to convert addresses to spatial coordinates

Multiple Data Sources

- Automated import and disambiguation of PubMed articles
- Automated generation of keyword lists from profile content
- Support for commercial sources of publication data
- Templates for manual entry of publications, e.g. books
- Incorporation of CRISP and NSF grant information

Profile Editing Tools

- Fully editable pre-populated researcher profiles
- Granular privacy flags that give users control of their data
- Proxy capabilities to assign profile editing rights to others

Open Source Architecture

- XML-based API to query Profiles Research Networking Software and extract data
- Freely available software and open source code
- Continual enhancements from an open source community

Key Features (continued)

Advanced Functionality

- Search tools for finding expertise across multiple disciplines
- Algorithms for identifying similar researchers
- Team building tools to enable intelligent formation of groups
- Social network analysis and data visualization
- Business intelligence reports for administrative users

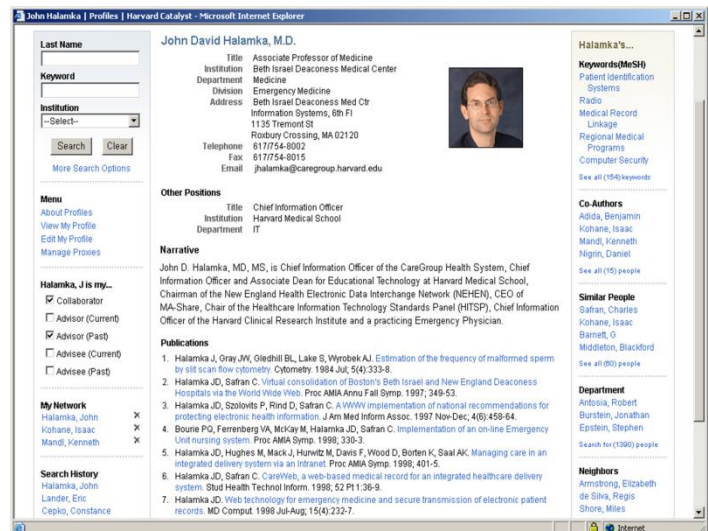
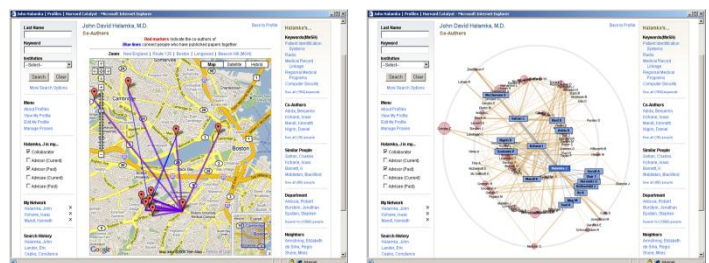


Figure 1: Example of a Researcher Profile



Figures 2 & 3: Examples of Co-Author Map & Network Views

Technical Requirements

- Microsoft Windows IIS web server with .NET 3.5
- Microsoft SQL Server 2005 (or 2008) database server
- The software is written in T-SQL can C# for .NET 3.5
- The database will require approximately 10 GB storage

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