

# Unseminars, Hackathons, Communities

Holger Dinkel, Malvika Sharan

03.12.2019

## Community Building Opportunities

- ▶ Hackathons
- ▶ Meetups / Unseminars
- ▶ Mentoring Programs / Remote Collaboration
- ▶ Teaching courses (Software Carpentry)
- ▶ Coding Club / User Group
- ▶ Beer session / Chai session
- ▶ ...

# What is a hackathon?



"A hackathon is a design sprint-like event in which computer programmers and others involved in software development, **collaborate** intensively on software projects. The **goal** of a hackathon is to **create usable software or hardware** with the goal of creating a functioning product by the end of the event."

(Source: Wikipedia)

Example <https://www.biohackathon-europe.org>

PARIS 2019 November 18th - 22th



## What is an Unseminar?

An “Unseminar” is a **participant-driven meeting**, a shorter version of an “unconference”. The content and structure of the events is driven by you! Unlike offering yet-another-seminar (yuck!), an unseminar offers **interactivity** amongst all participants.

# HUB (Heidelberg Unseminars in Bioinformatics)

We've been running almost thirty unseminars (2012-2019) as part of HUB - Heidelberg Unseminars in Bioinformatics which is a registered Club (gemeinnütziger eingetragener Verein in Heidelberg) aiming at fostering communication between scientists in the natural sciences.

- ▶ Heidelberg
- ▶ Budapest
- ▶ Berlin
- ▶ Norwich
- ▶ Cape Town
- ▶ as part of conferences such as VizBi or ISMB
- ▶ ...



## Heidelberg Unseminars in Bioinformatics

Particular areas of interest for Heidelberg Unseminars are to discuss best practices and exchange ideas.

[www.hub-hub.de](http://www.hub-hub.de)



## GENDER DIVERSITY



### Making friends with failure

July 23, 2019  
18:30-20:30

Buchleitner Room  
Im Neuenheimer Feld 580  
Technology Park

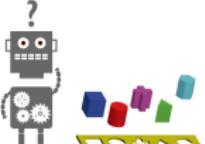


Hörsaal 12, Grabengasse 3-5, Uni Platz  
March 8, 18:30-20:30

MORE INFORMATION FROM [WWW.HUB-HUB.DE](http://WWW.HUB-HUB.DE)  
sponsored by



## HUB HEIDELBERG UNSEMINARS in BIOINFORMATICS



## MACHINE LEARNING

BioMed X, Im Neuenheimer Feld 583

December 8, 18:30-20:30 (bring your laptop)

MORE INFORMATION FROM [WWW.HUB-HUB.DE](http://WWW.HUB-HUB.DE)

sponsored by



## Heidelberg Unseminars in Bioinformatics



BioQuant 041, Im Neuenheimer Feld 267

Thursday June 9, 18:30-20:30

MORE INFORMATION FROM [WWW.HUB-HUB.DE](http://WWW.HUB-HUB.DE)

Refreshments sponsored by



## Heidelberg Unseminars in Bioinformatics



## VISUAL PERSPECTIVES IN SCIENCE

BioQuant 041, Im Neuenheimer Feld 267

March 8, 18:30-22:00

MORE INFORMATION FROM [WWW.HUB-HUB.DE](http://WWW.HUB-HUB.DE)

HUB HEIDELBERG UNSEMINARS IN BIOINFORMATICS



## User Experience



Monday, January 26th, 18:30  
(including brief annual general meeting afterwards in the Mentelli pub at 21:00)

Hörsaal 12a, Grabengasse 3-5, Uniplatz

Webpage: [www.hub-hub.de](http://www.hub-hub.de)

Contact: [hubs@hhu.de](mailto:hubs@hhu.de)

Tweet: [@hub\\_hu](https://twitter.com/hub_hu)

HUB is a permanent science meeting space under construction. It is a place where scientists from different disciplines meet to exchange ideas and discuss their work.

The organizers are a group of mathematicians and scientists

from the University of Heidelberg and the Karlsruhe Institute of Technology.

Sign up: [www.hub-hub.de](http://www.hub-hub.de)

& Christmas Market!

HUB Conditions & alternative sign up: [hubs@hhu.de](mailto:hubs@hhu.de)



## Heidelberg Unseminars in Bioinformatics



## Design and Visualisation

Making your mark in science

March 4, 18:30

(BioQuant 041, Im Neuenheimer Feld 267, Heidelberg)

Sinn: [www.hub-hub.de](http://www.hub-hub.de)

Contribute: [hubs@hhu.de](mailto:hubs@hhu.de)

Find us: [www.hub-hub.de](http://www.hub-hub.de)



### HUB 21: Interactive notebooks

Try out programming, Jupyter/Jupyter, chemoinformatics

Please bring your laptop!

January 25, 2019 | 09:00 - 09:30 pm

Büro für Kulturrat und Kulturstiftung, Im Neuenheimer Feld 267

[www.hub-hub.de](http://www.hub-hub.de)



## STORYTELLING IN SCIENCE

Hörsaal 12a, Grabengasse 3-5, Uniplatz

Dec 8, 18:30-20:30... + Christmas Market!

MORE INFORMATION FROM [WWW.HUB-HUB.DE](http://WWW.HUB-HUB.DE)

4 HEIDELBERG FORUM FOR YOUNG LIFE SCIENTISTS

12.12.2018



## Intuitistics

Thursday May 21, 20:00

DKFZ Communications Centre, Im Neuenheimer Feld 280

More info: [www.hub-hub.de](http://www.hub-hub.de)

4 HEIDELBERG FORUM FOR YOUNG LIFE SCIENTISTS

12.12.2018



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Hörsaal 12a, Grabengasse 3-5, Uniplatz

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## Heidelberg Unseminars in Bioinformatics



## Design and Visualisation

Making your mark in science

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Find us: [www.hub-hub.de](http://www.hub-hub.de)



### Agile software and project development



Thursday November 13, 18:30

Büro für Kulturrat und Kulturstiftung, Im Neuenheimer Feld 267

Sinn: [www.hub-hub.de](http://www.hub-hub.de)



Wednesday October 1, 18:30

DKFZ main room, R05/005, Im Neuenheimer Feld 267, Heidelberg

Sinn: [www.hub-hub.de](http://www.hub-hub.de)



## Tame your data!

Tuesday July 8, 18:30

Building 210, Grabengasse 3-5, Universtität

Sinn: [www.hub-hub.de](http://www.hub-hub.de)

# Barcelona Unseminars in Bioinformatics

[SUMMER WORKBOOK!](#)[DATA VIZZ – BUB2](#)[WIKIMARATHON – BUB1](#)[ABOUT](#)[CONTACT](#)

## About

We are a group of young researchers in bioinformatics aiming to promote the unseminars culture in Barcelona as a tool to share our knowledge (and ignorance!), experiences and interests around biological research and open science. BUB is strongly inspired by [Heidelberg Unseminars in Bioinformatics](#), a forum committed to coordinate a meeting point for bioinformaticians to encourage networking in their community.

## Tools

### Website/Wiki

Having a central server to announce, discuss, prepare and **share** information helped a lot (we used Mediawiki/Wordpress which worked great, but there are probably better tools these days. . . ). Etherpads can be useful too. . .

### Mailinglist, Twitter

Useful for getting/keeping in touch with people interested in such events.

### Verein

Helped dealing with money issues (financing the server, buying stationaries etc). Took some effort to get set up (legal stuff).

## Outcomes: great Community

- ▶ people **having fun** organizing and/or participating in these events
- ▶ people **help each other** with problems at work
- ▶ people **learn** from each other (organized workshops)
- ▶ people finding jobs in labs of other HUB members

# Outcomes: two “scientific Publications”

Collaboratively writing an article about organising unseminars/unconferences in bioinformatics such as:

- ▶ “Biggest challenges in bioinformatics.” (PMID:23492829  
PMCID:PMC3615659)
- ▶ “Ten simple rules for organizing an unconference.”  
(PMID:25633715 PMCID:PMC4310607)



## EDITORIAL

### Ten Simple Rules for Organizing an Unconference

Aidan Budd<sup>1\*</sup>, Holger Dinkel<sup>1</sup>, Manu Corpas<sup>2</sup>, Jonathon C. Fuller<sup>3</sup>, Laura Rubin<sup>1,4</sup>, Damien P. Devos<sup>5</sup>, Pierre H. Khoueiry<sup>6,7</sup>, Konrad U. Förstner<sup>8</sup>, Fotis Georgatos<sup>9</sup>, Francis Rowland<sup>10</sup>, Mahika Sharai<sup>11</sup>, Janos X. Binder<sup>11,12</sup>, Tom Grace<sup>12</sup>, Karyn Traphagen<sup>13</sup>, Adam Griewank<sup>14</sup>, Natasha Wood<sup>15</sup>

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\* aidan.budd@embl.de (AB); khoueiry@embl.de (PHK)

EMBO  
reports



## Biggest challenges in bioinformatics

Jonathan C. Fuller, Pierre Khoueiry, Holger Dinkel, Kristoffer Forslund, Alexandros Stamatakis, Joseph Barry, Aidan Budd, Theodoros G. Soldatos, Katja Linssen, Abdul Mateen Rajput & HUB Participants

The third Heidelberg Unseminars in Bioinformatics (HUB) was held on 18th October 2012, at Heidelberg University, Germany. HUB brought together around 40 bioinformaticians from academia and industry to discuss the ‘Biggest Challenges in Bioinformatics’ in a ‘World Café’ style event.



# Software Carpentry

Since 1998, Software Carpentry has been **teaching** researchers the **computing skills** they need to get more done in less time and with less pain. Our **volunteer instructors** have run **hundreds** of events for more than **34,000** researchers since 2012. All of our lesson materials are **freely reusable** under the Creative Commons license.

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for research computing



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Help us help researchers.



EMBL Course:

***Computing Skills For Reproducible Research: Software Carpentry***

EMBL Heidelberg, Germany 16-18 October 2019

# Open Life Science Mentoring Program



The program ▾ About ▾ Stories



A mentoring & training program for Open Science ambassadors in Life Science

The Open Life Science program helps early stage researchers and potential academic leaders in becoming Open Science ambassadors.

This is a 15-week long personal mentorship/training program

- ▶ sharing and gaining knowledge essential to create, lead, and sustain an Open Science project
- ▶ connecting with members across different communities & backgrounds
- ▶ empowering each other to become effective Open Science ambassadors in their communities



Computational Biology Resource for EMBL Heidelberg

BIO-IT ▾ TRAINING ▾ COMMUNITY ▾ EMBL CENTRES ▾

LOG IN

Bio-IT is a community initiative, which aims to build, support, and promote computational biology activity at EMBL. Bio-IT community members help each other conduct their research, and share their skills, experience, and tools with others. [Click here to find out more about the project.](#)

## TRAINING & CONSULTING

Course Materials	Access materials from Bio-IT courses.
Upcoming Courses	View all upcoming courses.
EMBL Centres	Information and resources from the EMBL Computational Centres.
Coding Club	Information about the weekly EMBL Coding Club, including a list of curated tutorials.
Bio-IT Consulting	Information on consulting offered by Bio-IT members.
Statistical Consulting	Information on consulting offered by the statistics centre

## COMMUNITY

Bio-IT Community Blogs	Blogposts by members of the Bio-IT Community.
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## LATEST NEWS

20 Nov: Bio-IT Beer Session on NextFlow!

2019-11-15

Join an informal discussion about NextFlow and workflow management, with pizza and drinks!

[More News](#)

## EVENTS

Bio-IT Drop-In Session

03/12/2019

Heidelberg

Microscopy, Optics & Image Analysis  
Seminar Series

## About Bio-IT

The Bio-IT Project aims to **develop** and **strengthen** the bioinformatics **community** at EMBL Heidelberg, to **encourage** **collaborations**, and to provide a forum for discussion of issues and ideas relevant to bioinformatics. It is made up of members across a range of disciplines in computational biology, in different Units and Core Facilities. .

- ▶ organisation and delivery of **training courses** such as this one
- ▶ provision of **one-to-one** training and consultancy
- ▶ organisation of social and **networking events** for the computational biology community
- ▶ regular **meetings** to discuss issues and ideas
- ▶ development and maintenance of the Bio-IT Portal  
<http://bio-it.embl.de>

# Coding Club

## What is a Coding Club?

In their original format, club meetings provided attendees with a **calm and productive environment** in which to **study and work**, setting their own pace and choosing their own topics to explore. Experienced volunteers acted as tutors, offering guidance and help as needed.

The EMBL Coding Club is an initiative to support the continued study and practice of computational biology by EMBL researchers of all backgrounds, especially those with limited programming experience.

## User Group ex. EMBL Python User Group (EPUG)



This is a collective of python programmers at EMBL HD who meet regularly to discuss python-related topics, demonstrate tools and modules, and experiment with python-related soft- and hardware. It's a friendly group, and the meetings are a great way to get to know some of the other people in the community who use this awesome language.

The idea is that everybody (even the newest coder) has different views, ideas, experiences and we can all learn from each other!

- ▶ Sharing information, links, tools, practices etc.
- ▶ standard library and tools
- ▶ visualization
- ▶ interact with hardware using micropython
- ▶ ...

# regular Beer session / Chai session



Computational Biology Resource for EMBL Heidelberg

BIO-IT ▾ TRAINING ▾ COMMUNITY ▾ EMBL CENTRES ▾

LOG IN

## 20 Nov: Bio-IT Beer Session on NextFlow!

By Toby Hodges | 2019-11-15 | Comments Off

The next Bio-IT beer session will take place in room V207 at 17:00 next Wednesday, 20 November 2019.

The session will be based around a discussion of **NextFlow**, a tool for management of analysis workflows/pipelines. It will begin with a brief introduction to NextFlow and a demonstration of how you can use it to create your own workflow, provided by **Anthony Fullam (Bork Group)** and **Matthias Monfort (Genome Biology Computational Support)**, followed by an informal discussion. This will be a great opportunity to get to know other members of the Bio-IT community, and to learn about and compare notes on workflow management tools. And, of course, there will be drinks and pizza available for attendees.

By Bio-IT, News



### About Toby Hodges

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[View all posts by Toby Hodges →](#)

### ≡ BIO-IT

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[Bio-IT Beer Sessions](#)

### ≡ EVENTS

[Bio-IT Drop-In Session](#)

03/12/2019

Heidelberg

## Bio-IT Beer Sessions

The Bio-IT community organises a series of beer sessions with a technical focus. These events happen monthly, with each session based around informal discussion of a particular theme. They are a good opportunity to get to know better other members of EMBL HD's computational biology community, and to learn about the topic.

We are always looking for new ideas and themes for these sessions and welcome contributions. If you would like to suggest a topic to be covered in one of these sessions, please contact [Toby Hedges](#).



In the first session of this new series, we created a [repository of restaurant and bar recommendations in Heidelberg](#), through [EMBL's GitLab system](#). Contributions to the repo are warmly welcomed.

## Discuss & Try!

- ▶ Hackathon
- ▶ Meetup / Unseminar
- ▶ Mentoring Program / remote collaboration
- ▶ Teaching / Software Carpentry
- ▶ Coding Club / User Group
- ▶ Beer/Chai session
- ▶ ...

Is this concept relevant to YOU?

Let's try this out!

Get together in groups and organize a hypothetical event of your choice