



Workshop



## BCI Workshop: Current and future applications of human-computer interaction

*Time & Date:* Friday, June 9<sup>th</sup>, 3.00-5.00 PM

*Location:* Science Gallery Dublin @ Trinity College Dublin

### About the workshop

Research groups all over the world have been successfully working on a direct connection between the human brain and a computer, a so-called Brain-Computer Interface (BCI). BCIs translate brain activity into control signals for numerous applications that help restore movement, assess cognitive functioning, and provide communication and environmental control. During this workshop, we will demonstrate the major concepts in BCI systems (motor imagery, P300, SSVEP). The audience will see all the required hardware and software, procedures for cap mounting, training and classifier setup. We will invite audience members to participate in live demos.

### Speakers

Katrin Mayr, Martin Walchshofer

Guger Technologies OG, g.tec medical engineering GmbH

**Katrin Mayr** studied medical engineering with a focus on biosignal processing. Since 2015 she is providing trainings and talks about the research and clinical systems of g.tec at conferences and exhibitions.

**Martin Walchshofer** studied health- and rehabilitation technique with a focus on software development. Since 2016 he is developing software interfaces for the amplifiers of g.tec. Beside that, he is visiting hackathon events and helps the programmers with the development at these events.



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15:00 – 15:30

Introduction: What is BCI? non-invasive/invasive systems, advantages of wireless systems, active dry and wet technology

15:30 – 16:00

How to: signal processing with P300, SSVEP and motor imagery methode; real-time analysis for avatar control

16:00 – 16:30

Applications: communication, cognitive assessment and mortor rehabilitation with BCI technology

16:30 – 17:00

Do It Yourself: Join the demo session!

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## Registration Form

**THIS IS AN INTERACTIVE FORM – CLICK ON AN EMPTY FIELD & START WRITING**

# BCI Workshop: Current and future applications of human-computer interaction

Venue

Date

Name and Degree

Institution/Affiliation

Department

Business Address

City

ZIP Code

State

Phone

E-Mail (important for receiving the confirmation)

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Please fill in and send it back via fax 0043-7251-22240-39 or email to Katrin Mayr: [mayr@gtec.at](mailto:mayr@gtec.at)