

# Interactive introduction to error analysis

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## Topic

Interactive introduction to scientific method – Elements of research: simple classroom activities.

## Summary

Inquiry based learning, learning through insight, research based teaching – all of those modern buzzwords which are sometimes hardly achievable in practice. Within this workshop we showed an exercise developed from the work of Simons & Chabris (1999) on inattention blindness. In order to teach students scientific inquiry, teachers first need to raise personal awareness about the individual knowledge and understanding of those concepts. In the workshop participants reflected on the teaching methods and learning activation in a classroom environment. Deeper analysis of assumption, observation and their influence in hypothesis generation were demonstrated. Observation and assumption creation are important element in scientific research, problem solving techniques and inquiry based learning. Participants were demonstrated concrete activities for students to inspire them and teach those skills using approaches which are interesting to them, engaging and fun. This workshop was a part of the Erasmus+ SPOON project.

## Resources

Simons, J.D., & Chabris, F. C., (1999). Gorillas in our midst: Sustained inattention blindness for dynamic events. *Perception*, 28, 1059-1074.

Bojan Markičević with his geophysics and physics background is an experienced facilitator, trainer and science communicator. He is involved in teaching and teacher training both at formal and informal level. He currently teaches physics at the Primary School Velika Mlaka in Zagreb suburbs, Croatia. He is lecturer of Transversal Scientific Skills on undergraduate studies of Frontiers in Life Science in Center for Interdisciplinary Research within Paris Descartes University in Paris, France. With French colleagues he founded a non-profit association Atelier des Jours a Venir where he works as senior consultant for science communication and education.