

Presentation by

**Dr. Phil Legg**

**Senior Lecturer  
in Computer  
Science**

# Hello!

August 2017

**UWE  
Bristol**

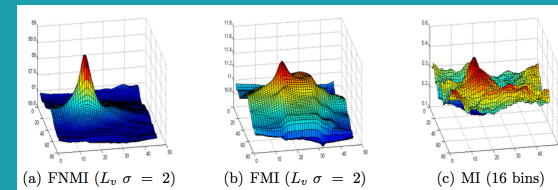
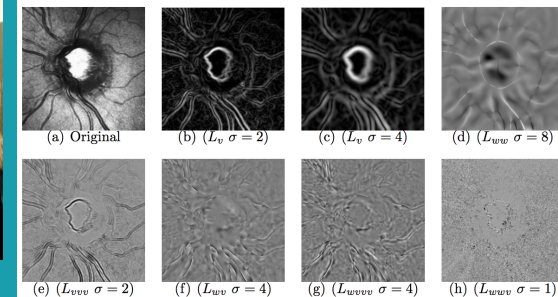
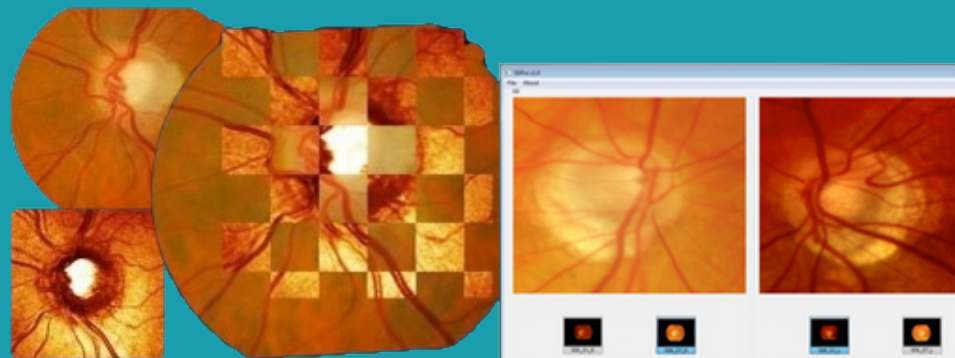
University  
of the  
West of  
England

# Background

# Background

PhD Cardiff University  
(2006-2010)

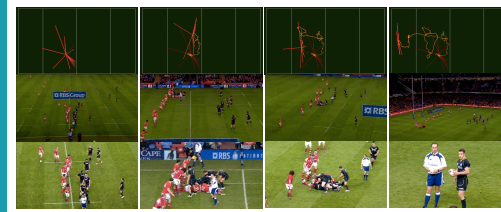
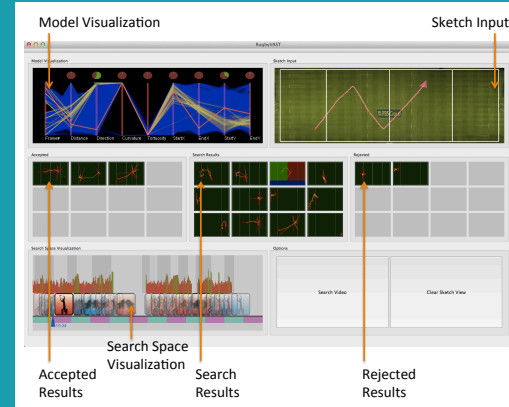
- Computer Vision
- Machine Learning
- Search Optimisation
- Grading Classification



# Background

PDRA Swansea University  
(2010-2013)

- Visualisation
- Data Analytics
- Machine Learning





# Background

PDRA University of Oxford  
(2013-2015)

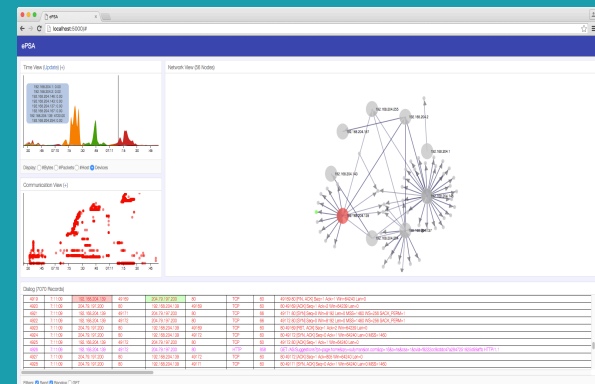
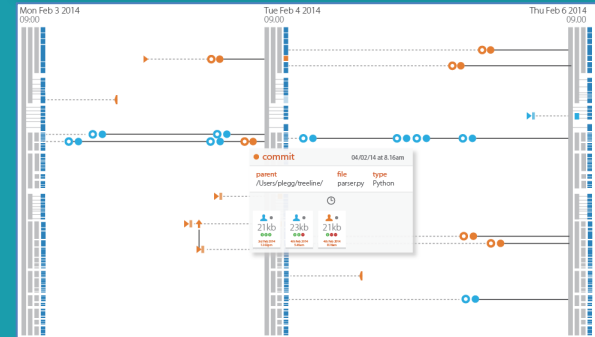
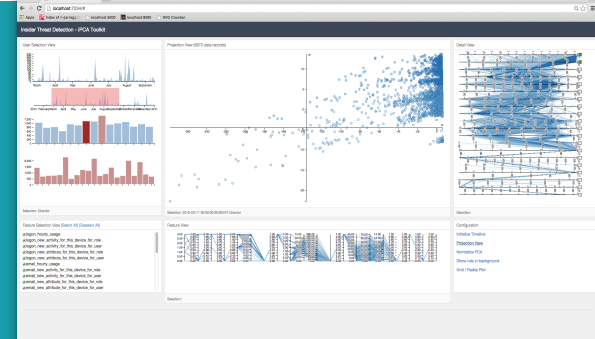
- Cyber security
- Insider Threat Detection
- Machine Learning
- Visual Analytics



# Background

Senior Lecturer at UWE  
(2015-Present)

- Security Data Analytics and Visualisation
- (Inter) Active Machine Learning
- Collaborative Human-Machine Interaction



What now?

# What Now?

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*“How can we understand and reason about machine learning processes using interactive visualisation techniques?”*

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*“How can we understand and reason about machine learning processes using interactive visualisation techniques?”*

*“How do we inspect and convey complex detail about ‘deep learning’ processes in a clear understandable manner?”*

# What Now?

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*“How can human processes collaborate with machine learning processes to promote transparency and trust in system and user functionality?”*



# What Now?

*“How can human processes collaborate with machine learning processes to promote transparency and trust in system and user functionality?”*

*“Can the user learn about the machine processes whilst the machine learns about the human process?”*

# What Now?

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*“Can active and pro-active forms of machine learning provide greater human-machine collaboration?”*

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*“Can active and pro-active forms of machine learning provide greater human-machine collaboration?”*

*“Can we measure confidence, consistency, and correctness in human-machine collaborations?”*

# Thank you



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