



**Dr David Gibson**  
**PhD**

Visiting Senior Research Fellow

Office MVB 1.15  
Merchant Venturers Building,  
Woodland Road, Clifton BS8 1UB  
([See a map](#))

+44 (0) 117 331 5099  
[david.gibson@bristol.ac.uk](mailto:david.gibson@bristol.ac.uk)

## Summary

### Research:

- [The Computer Vision Group](#).
- [The Quick-Sketch Project](#).
- [Generation of 3D models from a sequence of images](#).
- [After completing my PhD I worked on the AutoArch project \(power point which includes some previous work\)](#).
- [The MotionRipper project \(this site is maintained by 3CResearch\)](#).
- [Part of the MotionRipper work includes the motion capture of insects](#).
- [Publications](#)

## Keywords

- computer vision
- 3D models

## Memberships

### Organisations

[Department of Computer Science](#)

### Other sites

- [Computerscience](#)

### Research Groups

- [Visual Information Laboratory](#)

## Recent publications

- Michalis, C, Scott-Samuel, NE, Gibson, DP & Cuthill, IC, 2017, '[Optimal background matching camouflage](#)'. *Proceedings of the Royal Society B: Biological Sciences*, vol 284.
- Gibson, D & Campbell, N, 2017, '[Adaptive Space-Time Structural Coherence for Selective Imaging](#)'.
- Gibson, D, Burghardt, T, Campbell, N & Canagarajah, N, 2015, '[Towards automating visual in-field monitoring of crop health](#)'. in: *2015 IEEE International Conference on Image Processing (ICIP 2015)*. Institute of Electrical and Electronics Engineers (IEEE)

- Gibson, DP, Muller, H, Campbell, NW & Bull, D, 2012, '[Adaptive Sampling for Low Latency Vision Processing](#)'. in: *Asian conference on Computer Vision : Workshop on Computational Photography and Low-Level Vision.*, pp. 194-205
- Gibson, DP, Muller, HL & Campbell, NW, 2012, '[Adaptive Image Sensor Sampling for Limited Memory Motion Detection.](#)'. in: *Pervasive and Embedded Computing and Communication Systems.*
- Daubney, B, Gibson, D & Campbell, N, 2011, '[Estimating Pose of Articulated Objects using Low-Level Motion](#)'. *Computer Vision and Image Understanding*, vol 116., pp. 330 - 346
- Hill, P, Bull, D, Achim, A & Gibson, D, 2010, '[Automatic SAS target recognition using region based features, SVM, and adaptive boosting](#)'. in: *International Conference on Synthetic Aperture Radar and Synthetic Aperture Sonar 2010 (SAR/SAS 2010), Lercici, Italy.*
- Daubney, B, Gibson, D & Campbell, N, 2009, '[Monocular 3D Human Pose Estimation using Sparse Motion Features](#)'. in: *IEEE workshop on Tracking Humans for Evaluation of their Motion in Image Sequences 2009 - Held in conjunction with ICCV.*
- Daubney, B, Gibson, D & Campbell, N, 2008, '[Estimating Gait Phase using Low-Level Motion](#)'. *IEEE Workshop on Motion and Video Computing.*, pp. -
- Daubney, B, Gibson, D & Campbell, N, 2008, '[Real Time Pose Estimation of Articulated Objects using Low-Level Motion](#)'. in: *IEEE International Conference on Computer Vision and Pattern Recognition.*

[View complete publications list](#) in the University of Bristol publications system