Alain Nogaret

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Bio Summary

Alain Nogaret is Associate Professor in Physics at Bath. His research focusses on the experimental study of chaotic neural networks which he uses to investigate a range of dynamic properties, difficult to compute numerically. His group makes constructive use of artificial networks known as central pattern generators to develop adaptive bioelectronics for chronic disease. AN has constructed neuronal models from electrophysiological recordings and has contributed to the development of data assimilation and Bayesian inference tools for building predictive neuron models.

AN is currently the principal investigator of several research projects in biophysics including the H2020 CResPace consortium which develops central pattern generators for cardiorespiratory disease. AN is the author of 103 technical papers in peer-reviewed journals. He was awarded a PhD in Physics (Summa cum Laude) from the Georgia Inst. Tech. and the CNRS High Magnetic Field Laboratory in Grenoble for research in magneto-quantum tunnelling in III-V semiconductor structures.