

Benoît CHARLOT

CNRS research fellow - Chargé de recherches au CNRS



Lab

IES Institut d'Electronique et des Systèmes
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Born June 6, 1972. Married, two children. French
Personal Adress: 4, rue Rondelet, 34000 Montpellier

Skills

- MEMS, microfluidics and micro nano fabrication for experimental biophysics.

Diploma

- **Habilitation à diriger des recherches**, “micromécanique et microthermique, micro et nanotechnologies pour les sciences de la vie”, 8 avril 2015, Université de Montpellier
- **Ph.D**, March 2001, Institut National Polytechnique de Grenoble, TIMA laboratory “Fault modelling and design for testability of MEMS”. Advisors: Dr. Bernard COURTOIS (TIMA) and Pr. Alain CHOVEL (IMEP).

Positions

- 2002 : CNRS scientist “chargé de recherches”, TIMA Lab, MNS group. Grenoble, France.
- 2005 : LIMMS, Tokyo, Japan. Pr. Toshiyoshi optical and RF MEMS research group.
- 2007 : IES, Montpellier, France. Dept. Capteurs, Composants et Systèmes

Research activities

- Microfluidics for axonal transport analysis/ Neuron light interactions
- Rheology of blood under low and high shear stress
- Microfabrication for angular optical tweezers
- DNA and elongation and deposition by capillary assembly and nanofluidics,

Publications

31 journal papers, 60 conference proceedings, 3 book chapters, 5 invited talks, 1 patent
H-index : 17 (google scholar)

Teaching activities

- Microfluidics, Master IDS, DtecBIO, Phymed, Biophysics, Université Montpellier
- Neural Interfacing with microelectrodes, lecture, Sup Telecom Montpellier, TIC et santé.

Funded Cooperative research projects (past)

- Federation pour la recherche médicale 2016 “vers un pansement electro optique pour le cerveau”
- IC for biosensing, JST CREST funding with FUJITA lab, IIS Univ. of Tokyo. 2008-2009.
- ANR RAGE, SUPREME B and ASTRID AGYR.
- European project FP5 PROFIT (2000-2003) and FP6 VIBES 2003-2006

Research networks and laboratory of excellence

- Member of the scientific board LABEX (Laboratory of excellence,) NUMEV “Digital and hardware solutions for environment and life sciences”.

Administrative

Elected member of the administrative board, University Montpellier 2, 2012-2014