

MORGANE AUBINEAU

PhD in Neurodevelopmental Psychopathology – MSc in Clinical Neuroscience

☎ 07-50-22-00-15

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Research Gate page: https://www.researchgate.net/profile/Morgane_Aubineau2**ORCID ID:** 0000-0002-6053-2637**CAREER PROFILE AND OBJECTIVE**

Researcher and lecturer assistant in neuroscience, avid learner and passionate about brain research. Highly experienced in the field of neurodevelopmental conditions, from autism to giftedness, within multidisciplinary contexts and varying cultural environments. Confident presenter able to impart complex knowledge to audiences of all levels. Thrives on new intellectual challenges, individually and as part of a team.

I spent the last year reorienting my methodological approach to investigate neurodevelopmental psychopathology, from qualitative research to brain imaging. My objective for the next years is to start up my own research lab to examine the neural architecture of individuals with exceptional cognitive abilities (typical or with neurodevelopmental conditions) and its relationship with motivation.

RESEARCH EXPERIENCE**Cosupervisor**

University of Toulouse (France)

Student: Marie Marfaing

Title: *Parents' perspectives regarding experiences of inclusion in secondary schools of students with autistic spectrum conditions in France*

Sept. 2018 – present

Internship fellow

Montreal Neurological Institute (Canada)

Supervision: Pr Sherif Karama

Experience: using brain imaging techniques and tools (SurfStat, CIVET), programming in MATLAB, analysing and interpreting fMRI results

Summer 2018

Peer-reviewer – Revue Internationale de Communication et Socialisation (RISC)

Apr. 2017

Doctoral researcher

CERPPS, University of Toulouse (France)

Supervision: Dr. T. Blicharska (University of Toulouse, France) & Pr J.-C. Kalubi (University of Sherbrooke, Canada)

2014 – 2017

Thesis: *Students with autistic spectrum disorders and their parents' representations concerning their inclusion in high school: a France - Quebec comparison.*

Ph.D. viva: November, 16th 2017

Other credits: Over 300 hours of training courses during my Ph.D curriculum.

Doctoral researcher

2011 – 2013

University of Quebec in Trois-Rivières (UQTR, Canada)

Supervision: Carmen Dionne & Annie Paquet

4 semesters

Thesis topic: *Design of a self-assessment tool for quality of life of autistic children included in mainstream elementary schools.*

Research assistant

2011 – 2013

Chair of Canada Research in Early Intervention, UQTR (Canada)

Responsibilities:

- Collected and evaluated data of the centers in early intervention in Quebec for the project *“Early behavioral intervention in Quebec: Portrait of its implementation and measure of its effects in children with autistic spectrum disorders, his family and his environments for an ethical evaluation”* (direction: Pr Carmen Dionne)
- Drafted and contributed in drawing up chapters for the book *“The family and the person having an autistic spectrum disorder”*
- Identified material and methods for paper research
- Collaborated in different projects related to school inclusion of pupils with autistic spectrum disorders, effects of early diagnosis and early intervention on families quality of life

RELEVANT RESEARCH SKILLS

Research and clinical skills:

- Data collection and analyses
- Designing and applying mixed methodologies, including:
 - Performing statistical analyses
 - Performing thematic analyses
 - Conceiving interview schedules
- Conducting semi-structured interviews (with youth both typical and with special needs)
- Working within participatory research paradigm, with participants as collaborators
- Conducting neuropsychological assessments, from test administration to writing reports
- Assessing complex student' situations in an ecological perspective and designing individualized tools to support academic and social inclusion
- fMRI preprocessing and data analysis (SurfStat, CIVET, MATLAB)
- Neural time-series data analysis in electrophysiology (MATLAB, eeglab toolbox)

Communication (oral and written) skills:

- Writing and publishing scientific articles and dissertations
- Providing critical review about scientific literature
- Establishing partnerships between researchers and the community

- Producing and imparting qualitative research analyses suited to informing public policy
- Presenting and teaching to audiences of all levels (scientific or not, adults or youth)

Leadership and interpersonal skills:

- Managing a project, from research question formulation to practical application for the community
- Organizing study days and workshops (scientific, logistic, financial and communicational aspects)
- Conducting meetings
- Working in a transcultural environment
- Both comfortable with autonomous work and collaborative research

PUBLICATIONS

Aubineau, M., & Marfaing, M. (2019). Adolescents with ASD: Parental support, school support & psychosocial adaptation. A France – Quebec comparison. *American Journal of Community Psychology*. [in preparation].

Aubineau, M. & Blicharska, T. (2019). High functioning autistic students speak about their experience of inclusion in mainstream secondary schools. *School Mental Health* [accepted]

Lapasset, J.A. & **Aubineau, M.** (2018). French translation of “Executive Function 101” originally published by the National Center of Learning Disabilities. *Approche Neuropsychologique des Apprentissages chez l'Enfant* [in press]

Aubineau, M. (2018). Inclusion scolaire et *empowerment* des adolescents avec syndrome d'Asperger : écoutons-les ! Written communication for the conference « La participation dans les politiques sociales et médico-sociales : Quelle(s) autonomie(s) pour les acteurs ? » (University of Occidental Brittany) - May, 11 & 12. (Brest, France)

Aubineau, M. (2018). Guidelines for stakeholders involved in inclusion of ASD adolescents. *Students with autistic spectrum disorders and their parents' representations concerning their inclusion in high school: a France - Quebec comparison*. Expertise national network in ASD (Quebec, Canada), February 2018. Available online: <http://www.rnetsa.ca/wp-content/uploads/2018/02/Morgane-Aubineau-Mise-en-page.pdf>

Aubineau, M., Blicharska, T. & Kalubi, J.-C. (2018). Perception de soi et des relations d'amitié des adolescents présentant un trouble du spectre de l'autisme intégrés au secondaire ordinaire. Regards d'élèves, en France et au Québec. *Neuropsychiatrie de l'Enfance et de l'Adolescence*, 66(2), 90-102.

COMMUNICATIONS AND SCIENTIFIC CONTRIBUTIONS

12th Autism-Europe International Congress: A New Dynamic for Change and Inclusion (Nice, France). 15-minute oral presentation: “Francophone Students with Autistic Spectrum Conditions: What do They Have to Say Regarding Their School Inclusion?”.

Sept. 2019

- Conference “From self-knowledge to expression of affective life in ASC: conditions for school and social inclusion** (Levis, Canada). 90-minute oral presentation: “Autistic spectrum conditions: Giving a voice to students to foster their social and academic inclusion.”. May 2019
- INSAR 2019 Annual Meeting** (Montreal, Canada). Poster “Francophone students with ASC: What Do They Have To Say Regarding Their School Inclusion Experiences? ”. May 2019
- INSAR 2019 Annual Meeting** (Montreal, Canada). 90-minute workshop presentation: “Towards inclusive education: Cognition, learning and autistic youth's perspective”. May 2019
- Mentoring for PhD students** during the event “Aprodod: The serious game for employment” (University of Toulouse, School of Doctors, Toulouse). April 2019
- Symposium “Participation in social and medical politics: which autonomy for the stakeholders?”** Organization: LABERS RT6 – University of Brittany (Brest, France). 60-minute oral and written presentations. Oct. 2018
- International event *European Night of Researchers*** (Toulouse, France). Public meeting and oral presentation: “Can we see intelligence in the brain?” Sept. 2018
- Organization and oral presentation for the study day “ASD in adolescence: which challenges for inclusion?”** (University of Toulouse, France)
Main organiser and oral presenter.
Website: <http://blogs.univ-tlse2.fr/inclusionntsa/> Nov. 2017
- 4th HEP international congress “From integration to inclusion: an inclusive school for an equitable society”** (Saint-Maurice, Switzerland). 30-minute oral presentation: “Self and friendship’ representations of teenagers with ASD in mainstream high schools: A France – Quebec study”. April 2017
- 42^e Learning Disabilities Institute international congress “Learning disabilities and challenges in today’s world”** (Montreal, Canada). 30-minute oral presentation: “Social and learning strategies of adolescents with high functioning autistic spectrum disorders regarding mainstream education in high schools.”. March 2017
- International event *European Night of Researchers*** (Toulouse, France). Public meeting and oral presentation: “Having Asperger syndrome & succeeding in high school: it’s totally possible!”. Sept. 2016
- International event *European Night of Researchers*** (Toulouse, France). Public meeting and oral presentation: “Autism and success in high school: a France-Quebec perspective.” Sept. 2015
- International competition “My thesis in 180 seconds”** (Federal University of Toulouse & CPU/CNRS – Toulouse, France). Entry to the Regional Finale. April 2015

Jury member for the symposium in psychoeducation *"Invest our knowledges"*
University of Quebec in Trois-Rivières (Canada)

April 2012

TEACHING EXPERIENCE

Teaching Assistant in Neuroscience

2017 – present

University of Toulouse (France)

Courses:

- Brain, hormones and health (3rd year BSc)
- Neuropsychology (3rd year BSc)
- Psychophysiology (1st year BSc)
- Statistical analysis & content analysis (1st year MSc)

Temporary replacement teaching in Neuroscience

2016 – 2017

University of Toulouse (France)

Course:

- Psychophysiology (1st year BSc)

EDUCATION

Postgraduate medical degree *"Morphology & imaging of the central nervous system"*

2017

Department of Biomedical sciences – University of Paris 6 (France)

Thesis: *"Structural and functional neuromarkers of high general cognitive ability (g)"*

2nd year Bachelor degree *"Psychology"* (with Honours)

2014-2015

University of Toulouse (France)

A one-year post Master degree *"Neuropsychological sciences"* (with Honours, ranked 1st)

2013 – 2014

University of Bordeaux (France)

Thesis: *"Case study: functional impacts of sleep troubles on quality of life of a young adult with attention deficit and hyperactivity disorder"*

1st year of Inter-University post Master degree *"Autisms"*

2010 – 2011

Universities of Bordeaux 2, Montpellier 1 & Toulouse 3 (France)

2nd year of Master *"Clinical neuroscience and neuropsychology"* (with Honours)

2009 – 2010

University of Toulouse 3 (France)

Thesis: *"Developmental dyslexias: the effects of an intensive and specific reeducation on reading performances of dyslexic children"*

1st year of Master *"Science and Health"* (with Honours)

2008 – 2009

University of Toulouse 3 (France)

Thesis: *"Developmental dyslexias and reading performances of dyslexic"*

children in primary schools"

Bachelor degree "Science and Health"

2005 – 2008

University of Bordeaux 2 (France)

INTERNSHIPS & EDUCATIONAL TRAVELS

Summer school "Linear Algebra for Neuroscientists"

Summer 2019

Radboud University, Netherlands (course leader: Pr Michael Cohen)

Credits: 2 ECTS

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Summer school "Excellence beyond borders: Breaking down Barriers in Gifted Education"

Summer 2019

Radboud University, Netherlands (course leader: Pr Lianne Hoogeveen)

Credits: 2 ECTS

Intern fellow

Summer 2018

Montreal Neurological Institute (University of McGill, Canada)

Supervision: Professor Sherif Karama

Summer school "Research methodologies in psychiatry"

June, 18-22
2018

INSERM Unit 1061 in collaboration with the Institute of Psychiatry, Psychology & Neuroscience of London (direction: Pr Robert Steward and Pr Dennis Chan)

3th Basel Winter School "Leadership and professional skills and on psychiatry"

Jan., 10-12
2018

University of Basel, in collaboration with the Association for the Improvement of Mental Health Programs (direction: Pr Norman Sartorius)

Doctoral internship (200 hours)

Mar. – May
2016

Department of School Adaptation – University of Sherbrooke (Longueuil, Canada)

- Collected data for my doctoral research
- Reviewed papers: dissertations, abstracts, institutional reports
- Involved in the scientific activities of the Research Chair "*Professional identities and innovations in intellectual disability and autistic spectrum disorders*"

Voluntary internship (100 hours)

May – July
2014

Association InPACTS (Toulouse, France) - providing support and therapy for ASD youth

- Observed therapeutic sessions with children and adolescents with ASD
- Participated in therapeutic sessions in psychology and motor skills training, individual and groups
- Participated in monthly professional meetings on children follow-up

Voluntary internship (100 hours)

Feb. – June
2013

School Commission of Montreal (Montreal, Canada)

- Supported school inclusion of pupils with autistic spectrum disorders in mainstream secondary schools

- Developed and devised tools for supporting the students
- Advised and supported teaching assistant in their work with children

PhD internship (30 hours)

Nov. 2012

Centre of Readaptation in Intellectual Disability and Autistic Spectrum Disorders
– University Institute (Quebec, Canada)

- Observed interdisciplinary early assessment with young children (age: 2-4) suspected to have autistic spectrum disorders & report meetings with parents
- Wrote bibliographic report, assessment report, case observation report and reflexive analysis report

2nd year Master internship (500 hours)

Sept. 2009 –
June 2010

INSERM Research Unit 825 “*Brain imaging and neurological handicaps*”
(Toulouse, France)

- Interviewed parents and dyslexic children
- Conducted neuropsychological tests (WISC, ODEDYS, etc.)
- Scored tests and wrote reports (for families and paramedical professionals)
- Used electroencephalography techniques

1st year Master internship (100 hours)

Jan. – June
2009

INSERM Research Unit 825 “*Brain imaging and neurological handicaps*”
(Toulouse, France)

- Observed and was trained to give neuropsychological tests
- Used electroencephalogram techniques

Voluntary internship (80 hours)

Aug. 2007

INSERM Research Unit 862 “*Pathophysiology of neural plasticity*” (Bordeaux, France)

- Observed and performed molecular biology techniques (Western Blot, ELISA, PCR, etc.)

Voluntary internship (80 hours)

July 2006

INSERM Research Unit 862 “*Pathophysiology of neural plasticity*” (Bordeaux, France)

- Observed and performed EEG and LFP on mice

AWARDS & HONOURS

Award for Best Ph.D thesis 2018 (1500€)

Jan. 2019

Department of research of Social and Human Sciences of Toulouse (France)

Program “International mobility support for Ph.D candidates” (600€)

2016 – 2017

School of Doctors – Federal University of Toulouse (France)

Program “International mobility support for Ph.D candidates” (1211€)

2015 – 2016

School of Doctors – Federal University of Toulouse (France)

Program of financial support to research (5000\$CAD)

2012 – 2013

Centre of Readaptation in Intellectual Disability and Autistic Spectrum Disorders – University Institute (Quebec, Canada)

Fellowship Aurèle and Suzanne Daoust (2000\$CAD)

2011 – 2013

Section “Higher education” for the scout chiefs of Montreal Metropolitan Scouts (Quebec, Canada)

WORK EXPERIENCE

School support for teenagers with Asperger syndrome (4hours/week).

2015 – 2017

Mandates:

- Support for homework & work organisation
- Enhance his French conversational & writing skills

Psycho-educational interventions at home for 4 children with autistic spectrum disorders (100 hours)

2014

School tutor

Feb. – Mar.
2014

Association TSA 31 – Support for autistic children and their families (Toulouse, France)

- Planned and supervised school sessions with different group of autistic children
- Designed activities related to emotions and theory of mind with adolescents with Asperger syndrome
- Participated in weekly meetings on children follow-up

Volunteer for therapeutic support

July – Dec.
2013

Institute “Mundo Libre” (Pachacamac, Peru)

- Supported daily life of drug addicted street children
- Strengthened and consolidated school support – Assisted the main teacher
- Created educative activities
- Coordinated and administered a partnership between Mundo Libre and local scout group

School instructor

Sept. – Dec.
2010

Leisure Centre Associated to School (Toulouse, France)

- Created educative activities
- Participated in weekly instructors meetings

RELEVANT MASSIVE OPEN ONLINE COURSES COMPLETED

Complete linear algebra: theory and implementation – Michael Cohen (Udemy)

Aug. 2019

Learn MATLAB programming, debugging and style – Michael Cohen (Udemy)

Aug. 2019

Introduction to programming with MATLAB – Vanderbilt University (Coursera)

Jul. 2019

The Addicted Brain – Emory University (Coursera)

June 2019

Understanding Clinical Research: Behind the Statistics – Cap University (Coursera)

Aug. 2019

Introduction to Computer Science and Programming Using Python – MIT (EdX)

Aug. 2018

<i>Learning how to Learn</i> – McMaster University (Coursera)	Aug. 2018
<i>Fundamental Neuroscience for Neuroimaging</i> – John Hopkins University (Coursera)	May 2018
<i>The intelligent brain</i> – University of California, Irvine (The Great Courses)	Dec. 2017

ADDITIONAL RELEVANT INFORMATION

Professional network membership

- International Society for Autism Research
- International Society for Intelligence Research
- National Expert Network in autistic Spectrum Disorders (RNETSA, Quebec)
- Autism science network (France)
- Toulouse Mind & Brain Institute (France)
- Association for the Promotion of Gifted Education Research (ALFRED, France)

Volunteering

- Scouting (France, Canada and Peru)
- School tutoring for students with psychopathological difficulties
- Training interventions for parents of autistic children (Association Sesame Autisme)
- Mensa France & International: co-responsible for the French group “Youth”: organization of meeting camps and activities

Language skills

- **English:** fluent (reading, writing, speaking)
- **French:** mother tongue
- **Spanish:** non-technical conversations, writing emails, reading, watching movies

Computer knowledge

- Matlab (Intermediary to proficient level)
- Python (Intermediary level)
- SPSS (statistical software package)
- QDA Miner (qualitative data analysis software)
- Qualtrics (data collection and analysis software)
- Web programming: initiation to Javascript, PHP, HTML, CSS and MySQL

Other qualifications

- Youth Leadership and Director in Holiday Camp
- First Aid Certification
- Driving License

Personal interests

- Scouting
- Violin (22 years of practice) and cello (4 years of practice) (Toulouse Music Conservatory)
- Escape games
- Brainhacking and enhanced cognition
- Medieval fencing