

Name : Antoine Bodin

Nationality: French

Education:

Name of institution	Degree(s) or Diploma(s) obtained:	Date of obtainment
French Ministry of Education and University - PARIS	AGREGATION : " Agrégé " in Mathematics (top-level competitive examination for recruiting university and secondary school teachers)	1993
Louis Lumière University, Strasbourg FRANCE	" DEA " (M.Sc.equiv.) in Mathematics (option Mathematical Didactics)).	1979
French Ministry of Education - PARIS	" CAPES " (competitive examination for recruiting teachers with a first degree) in Mathematics	1971
University of DAKAR Senegal	B.Sc. (equiv.) in Mathematics	1967
Paris Academy	Baccalauréat mathématiques et technique	1960

Membership in Professional Associations:

French Mathematical Society (SMF - France)
 Association des Professeurs de Mathématiques de l'Enseignement Public (APMEP - France)
 National Council of Teachers in Mathematics (NCTM - USA)
 Association pour la Recherche en Didactique des Mathématiques (ARDM - France)
 American Educational Research Association (AERA - USA)
 Association pour le Développement des Méthodologies d'Évaluation en Éducation (ADMEE-Europe)

Other training *[Indicate significant training]*

Numerous courses, training sessions, seminars and summer schools in Mathematics, Statistics, Informatics, Didactics, Teacher training and monitoring, Curriculum development, Evaluation and assessment...

Countries of work experience: *[List countries where staff has worked in the last ten years]*

TAJIKISTAN - LAO PDR - CHILI - IRAN - ALGERIA – TUNISIA - ITALY - SENEGAL - MALI - BURKINA FASO – NIGER – IVORY COAST – BENIN – TOGO – USA – BULGARIA – JAPAN – CANADA – POLAND - BRAZIL

Languages:

[For each language indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]

Language	Speaking	Reading	Writing
FRENCH	Good	Good	Good
ENGLISH	Fair	Good	Good
ITALIAN	Fair	Fair	Fair

Employment Record:

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]

From [Year]: 2007		TO [Year]: Now	
Employer:	Institute of Research on Mathematics Education (IREM – Aix-Marseille University)		
Positions held:	Independent consultant and associated scholar Head of the Research group in assessment and curriculum matters. In charge of some secondary teachers' training seminars for the Aix-Marseille Academy. In charge to assess an ICT leaning platform set in the Marseille second chance school and to designing an innovative department for this school.		

From [Year]: 2011		TO: 2014	
Employer:	Marseille Second Chance School - Independent consultant (Education)		
Positions held:	Head of the Centre for Competence Development and Assessment set in the Marseille Second chance School (CEDEC-E2C)		

From [Year]: 2002		TO [Year]: 2007	
Employer:	Independent consultant (Education)		
Positions held:	Assignments with the French Ministry of Foreign Affairs (Algeria – West Africa, Serbia). See point 12		

From [Year]: 2002		TO [Year]: 2007	
Employer:	Hatier Publishing - PARIS		
Positions held:	Math textbook author (grade 10) Designing and writing an exhaustive innovative online interactive course in mathematics (grade 10).		

From [Year]: 1996		TO [Year]: 2002 (until official retirement from the Ministry of Education).	
Employer:	French Ministry of Education		
Positions held:	Charged by the Ministry of Education to monitor and help developing innovative teaching and school management practices in the whole Franche-Comté Academy (primary and secondary levels). Coordination and advice to the "Recteur" (government representative in charge of the Educational Administrative Area)		

From [Year]: 1974	TO [Year]: 1996
Employer:	French Ministry of Education
Positions held:	Lower Secondary School (part time) Researcher in Didactics of Mathematics and teacher trainer in the IREM (Institute for Research in Mathematics Education – Franche-Comté University). Many assignments in the Ministry of Education and in Research (see below). Many assignments in consultancy and in teacher training in many countries.

From [Year]: 1971	TO [Year]: 1974
Employer:	French Ministry of Cooperation
Positions held:	High school mathematics Teacher (half time) Teacher trainer and adviser (half time) ABIDJAN and BOUAKE – IVORY COAST

From [Year]: 1961	TO [Year]: 1971
Employer:	High and Lower Secondary School “Hann” – DAKAR - SENEGAL
Positions held:	Mathematics and Science Teacher from grade 6 to grade 12

1. Work Undertaken
Name of assignment or project: GPE-4 (FOURTH GLOBAL PARTNERSHIP FOR EDUCATION GRANT (GPE-4)) Year: 2015 Location: TAJIKISTAN (4 stays – 86 days) Client: World Bank Positions held: International Consultant Activities performed: Review and development of the grades 5-11 Mathematics package and assistance in its approbation. Preparation of teachers’ guides and of teachers’ training seminars.
Name of assignment or project: Study of Mathematics Education in Japan Year: 2012 Location: Tokyo, Fukuoka, Hiroshima (1 month) Client: Invitation of the University of Fukuoka Positions held: Researcher Activities performed: Survey of Japanese curriculum and teaching methods- Class observation and lesson studies. Communications.
Name of assignment or project: CEDEC Year: 2011 till 2014 Location: France Client: Second School Chance of Marseille Main project features: designing and experimenting new ways of teaching, student training and assessing for competencies (and not only abstract knowledge) especially in maths, science, informatics. Positions held: head of the centre. Activities performed: Managing a team of scholars, and organizing partnership with university research centers. Developing new curriculum and assessment matters in link with an Internet learning centre (EDA/E2C).
Name of assignment or project: EVAPM Year: 1987-2008 Location: France

Client: National Institute For Pedagogical Research and French Math Teacher Association

Main project features:

Positions held:

Activities performed: **Head and project manager.**

Planning and monitoring a National "Observatory" to regularly assess "what students really learn in mathematics" from grade 6 to grade 12 (to help monitoring the curriculum). 20 large scale studies with production of new assessment tools.

Name of assignment or project: PISA

Year: 1999-2001

Location: International

Client: OECD

Main project features: Program International for Students Assessment.

Positions held: Member of the International Mathematics Expert group

Activities performed: Designing the test material.

Name of assignment or project: TIMSS

Year: 1991-1998

Location: International

Client: IEA

Main project features: Third International Mathematics and Science Study

Positions held: Member of the International Subject Matter Advisory Committee

Activities performed: Designing the test material.

**Name of assignment or project: SECOND EDUCATION DEVELOPMENT PROGRAM (SEDP)
WORLD BANK PHRD 26344-LA**

Year: 2001

Location: LAO PDR

Client: BCEOM (International Consultant Agency)

Main project features:

Positions held: Evaluation and assessment Expert

Activities performed: survey of the LAO PDR system of pedagogical assessment, from students' assessments by teachers to national examinations.

**Name of assignment or project: Evaluation of the Interafrican Program for Harmonizing
Mathematics Curriculum (ARCHES -HPM)**

Year: 2003

Location: Burkina-Faso, Niger, Senegal, Mali, Benin, Togo (2 months on site plus 2 for writing the report).

Client: French Ministry of Foreign Affairs

Main project features: Assessing the processes and the outcomes of a Multinational Sub-Saharan Project aimed to support secondary educational systems in around 20 countries (ARCHES and its HPM mathematical strand).

Positions held: Math expert in a group of 4 (the other being science expert, French language expert and school management expert)

Activities performed: Reviewing previous reports, visiting official both in local Ministry and in the French Embassies, visiting schools, meeting with teachers and inspectors.

Name of assignment or project: Helping to build a new mathematical Curriculum in Algeria

Year: 2002

Location: ALGER – BESANCON – PARIS - GHARDAIA

Client: French Ministry of Foreign Affairs

Main project features: Assist the Algerian group of experts to write a new mathematics curriculum (grade K to 12).

Positions held: Math expert for secondary level

Activities performed: Meeting with Algerian experts (6 times a week long session) – experimentation in class settings – organization and monitoring of several training sessions in France for the Algerian Expert Group and for inspectors.

Activities performed: organizing meeting and training session for teachers and head of schools.

Negotiating training, hiring teachers trainers...

Name of assignment or project: Curriculum development

Year: 1985-2001

Location: Paris

Client: French Ministry of Education

Main project features: Designing national mathematics K-12 mathematics curriculum.

Positions held: Member of the curriculum design team.

Name of assignment or project: French National Assessment

Year: 1984-1996

Location: Paris

Client: French Ministry of Education

Main project features:

Designing national assessment in mathematics at grade 8, 10 and 11.

Designing a French National diagnostic assessment in mathematics at grade 6.

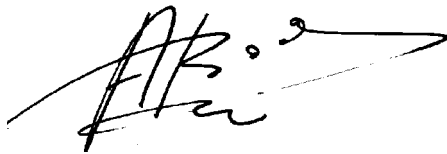
Designing a software to monitor the results (this software - CASIMIR - was used by all schools in France from 1990 to 2005).

Positions held: member of the National Expert Group and head of the team set to developing a national software aimed to process the results and to provide teachers with diagnostic information.

Activities performed: designing national tests and interpreting the results. This software, known as Casimir, has been used in all primary and middle schools of the whole country for close to 10 years.

13.Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged



Date:

February 16, 2016

Full name of staff member: Antoine BODIN

Addition to the Antoine Bodin's CV

Publications (part):

- Bodin, A. (2016) : The notion of competence in PISA and TIMSS From the idea to the practice. Seminaire TRUMP – Coimbra – Portugal
- Bodin, A. (2015) : Didactique des mathématiques et évaluation : petite histoire de 40 ans de chemins parallèles. À terme, l'évaluation est-elle soluble dans la didactique ? Actes du séminaire national de didactique des mathématiques 2015
- Bodin, A. (2012) : Autour des compétences déterminantes pour l'orientation. Communication au congrès de l'Espace Mathématique Francophone (EMF 2012) - Genève 3-7 février 2012
- Bodin, A. (2011) : vers un test adaptatif - critérié, combinant l'utilisation de l'IRT (Item Response Theory) et de l'ASI (Implicative Statistics Analysis) pour l'évaluation du socle commun de connaissances et de compétences. Actes 5eme colloque international de l'Analyse statistique implicative. Palerme - Italie
- Bodin, A. (2011) : Que nous disent les évaluations internationales sur les compétences de nos élèves en matière de résolution de problèmes ? Actes CORFEM 2010.
- Bodin, A. (2010) : Les TIC en mathématiques et leur évaluation dans le socle commun de connaissances et de compétences. *Mathematice* n°19 (revue en ligne).
- Bodin, A. (2010) : Mathématiques et socle commun : vers une opérationnalisation évaluative valide. Actes du colloque "Les mathématiciens face a l'enseignement de leur discipline". Centre International de rencontres Mathématiques -Marseille, 17 mars 2010.
- Bodin, A. (2009) : Organisation et fonctionnement des comparaisons internationales à grande échelle, avec un accent particulier sur PISA. Conférence donnée au congrès de l'Espace Mathématique Francophone – EMF 2009. Université Cheikh Anta Diop – DAKAR
- Bodin, A (2009) : L'étude PISA pour les mathématiques Résultats français et réactions. *Gazette des mathématiciens* N°120 (Société Mathématique de France).
- Bodin, A (2008) : French Pisa Mathematics Results and Reactions - Communicatin to the Second Iberian Mathematical Meeting - Badajoz, Spain, October 3-5, 2008
- Bodin, A. (2008) : Lecture et utilisation de PISA pour les enseignants. *Petit x* ; n° 78, pp. 53-78, IREM de Grenoble.
- Bodin, A. (2007) : What does PISA really assess? What it doesn't? A French view." In Hopmann , S. T. :PISA zufolge PISA / PISA According to PISA - Wien
- Bodin, A. (2007) : Dissonances et convergences évaluatives - De l'évaluation dans la classe aux évaluations internationales : quelle cohérence ? *Bulletin de l'APMEPN*° 474 pp 47-79
- Bodin, A.. (2006) : En français : Ce qui est vraiment évalué par PISA en mathématiques. Ce qui ne l'est pas. Un point de vue français. Communication faite à la conférences Franco Finlandaise sur PISA. *Bulletin de l'APMEP* N°463.
- Bodin, A. (2006) : Les mathématiques face aux évaluations nationales et internationales. De la première étude menée en 1960 aux études TIMSS et PISA ... en passant par les études de la DEP et d'EVAPM. Communication séminaire de l'EHESS. *Repères IREM*, N°65, octobre 2006.
- Bodin, A : 2001, Bodin, A, Villani, V., Straesser, R., : 2001, "Reference levels in School Mathematics Education in Europe - International report.. European Mathematical Society and European Commission.
- Bodin, A : 2000, Vers des niveaux de référence en mathématiques,pour les pays de la Communauté Européenne, *Bulletin de l'APMEP*, N°426, pp 61-77
- Bodin A. : 1997, " L'évaluation du savoir mathématique - Questions et méthodes. *Recherches en Didactique des Mathématiques*, Éditions La Pensée Sauvage, Grenoble ".(Assessing Mathematical Knowledge – Questions and Methods. Research into the Didactic Meaningfulness of Mathematics. Published by " La Pensée Sauvage ", Grenoble).
- Bodin A. : 1997, " Une présentation de la Troisième Étude Internationale sur l'enseignement des Mathématiques et des Sciences - Considérations sur la démarche, sur les résultats, sur l'intérêt de l'étude - Dossier de d'information sur TIMSS - IREM de Besançon ". (Presenting the Third International Mathematics and Science Teaching Study – Considerations on the method, results and interest of the Study – Information on the TIMSS – IREM of Besancon.)
- Bodin, A.: 1997, "Curricula, Programme, Objectifs, Évaluation, en mathématiques - Problèmes théoriques et méthodologiques – Rapport de recherche GR/DLC ". (Curricula, Objectives, Assessment, in Mathematics – Theoretical and Methodological Problems – Research Report GR-CNRS).
- Bodin, A : 1997, " "L'évaluation en mathématiques ", in P. Legrand : les maths en collège et en lycée. Hachette

- Éducation ”. (Assessment in Mathematics, in P. Legrand : Mathematics in Junior and Senior Secondary Schools).
- Bodin, A : 1997, “ “ Modèles sous-jacents à l'analyse implicative et outils complémentaires ”, in A.Bodin, R.Gras, J.B. Lagrange : implication statistique, prépublication 97-32 - IRMAR de RENNES ”. (Underlying Models in Involvement Analysis and Complementary Tools ” in A. Bodin, R. Gras, J.B. Lagrange : Statistical Implication, pre-publication 97-32 – IRMAR, Rennes.)
- Bodin, A : 1998, “ L'Observatoire EVAPM, Un dispositif de recherche et de développement pour l'évaluation en mathématiques, biennale de l'éducation et de la formation, PARIS 1998 ” (The EVAPM Observatory, A research and development device for assessing mathematics knowledge; Education and Training Biennial).
- Bodin, A : 1998, “ Outils pour l'évaluation en mathématiques : la base de données EVAPMIB, Pour l'enseignement secondaire et la formation des enseignants, colloque AUPELF, Hanoï. (Assessment Tools for Teaching Mathematics : the EVAPMIB data base, For Secondary Education and Teacher Training, AUPELF Colloquium, Hanoi.).
- Bodin, A. & Capponi, B. : 1996, Junior Secondary School Practices, International Handbook of Mathematics Education, Chapter 15, Teaching and Learning Mathematics, A. Bishop & C. Laborde (eds), pp 565-613, Kluwer Academics Publishers, Dordrecht.
- Bodin, A. : 1996, 'Improving the Diagnostic and Didactic Meaningfulness of Mathematics Assessment in France' Annual Meeting of the American Educational Research Association AERA - New-York
- Bodin, A. : 1996, “ Mesures pour le système éducatif ” Actes des 7èmes Entretiens de la Villette, 148-160, Centre National de Documentation Pédagogique, Paris. (Measures for the Educational System ” Proceedings of the 7th Discussion Session in La Villette).
- Bodin, A. & Couturier, R. & Gras, R : 1996, “ Analyse d'une épreuve de concours par la méthode implicative ”. Communication aux journées de la Société Française de Classification, Vannes. (Analysis of a competitive examination using the involvement method. Paper given during the Conference of the French Classification Society).
- Bodin A.: 1993, 'What does to assess mean', *Investigations into Assessment in Mathematics Education, An ICMI Study* (ed Mogens NISS) - Kluwer Academic Publishers - Dordrecht
- BODIN A. (1992), Les mathématiques en fin de Troisième générale - évolution des compétences observées chez les élèves au cours des années 80. -In Rapport à Monsieur le Ministre de l'Education Nationale établi par Claude Thélot, Directeur de la DEP (1992). Publié dans le dossier Education et formations n°17 d'octobre 1992 (DEP).et dans le bulletin de l'APMEP Février 1993

Numerous Antoine Bodin papers and datashows may be downloaded from his Website :

[http://bit.ly/Site Antoine Bodin PRO](http://bit.ly/Site_Antoine_Bodin_PRO)