

CURRICULUM VITÆ

PERSONAL INFORMATION

Full Name: Ghislaine Gueudet
Date of Birth: November 30, 1967
Place of birth: Nancy, France
Citizenship: French

WORK ADDRESS

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POSITIONS AND DIPLOMA

- 2017-2009** Full Professor in Mathematics Didactics, ESPE Bretagne, University of Brest
- 2008** Habilitation à diriger des recherches, Université Paris 7 Paris Diderot
- 2009-2002** Maître de Conférences in Mathematics Didactics, IUFM Bretagne
- 2000** PhD in Mathematics Education, University of Grenoble 1

RESEARCH PROGRAMS RESPONSIBILITIES

- 2017** French research project (PIA-eFRAN): Digital Interactions for Education and Teaching. Member of the project management, responsible of the task “collective work for students’ autonomy”.
- 2017-2014** French research project (ANR): Resources for teaching and learning. Member of the project management, responsible of the task “teachers’ resource systems”. Investigation of school resources in English, Mathematics, Physics and Technology in France.
- 2012-2009** European research project Science Teacher Education Advanced Methods (STEAM, FP7). Responsible of the French CREAD team, investigating digital resources for science teachers’ education.
- 2010-2008** European research project Mind the Gap (FP7). Responsible of the French CREAD team, investigating the role of ICT for Inquiry-based science education.

RESEARCH ORGANISATION RESPONSIBILITIES

- 2017-2015** Chair of the CERME 10 Program Committee (Dublin, 2017)
- 2015** Co-Chair of the French Didactics summer school (Brest, 2015)
- 2015** Member of the Scientific Advisory board, Department of Science Education, Copenhagen
- 2014-2009** Co- director of the CREAD (Research Center on Education, Learning and Didactics), <http://cread.espe-bretagne.fr/>
- 2015-2008** Member of the European Mathematical Society Educational Committee, http://www.euro-math-soc.eu/ems_education/education_homepage.html

PHD DIRECTIONS

- 2016** Nolwenn Quéré, Teachers’ collective work with digital resources and professional development
- 2015** Pierre-Vincent Quéré Teaching Mathematics for Engineers
- Direction of 5 PhDs defended (between 2010 and 2016).

Journal articles (2012-2017)

1. Pepin, B., Gueudet, G., & Trouche, L. (2017). Refining teacher design capacity: Mathematics teachers' interactions with digital curriculum resources. *ZDM, The International Journal on Mathematics Education*, 49(5), 799-812, doi: 10.1007/s11858-017-0870-8
2. Gueudet, G., Pepin, B., Sabra, H., Restrepo, A. & Trouche, L. (2017). E-textbooks and connectivity : proposing an analytical framework. *International Journal for Mathematics and Science Education*, doi:10.1007/s10763-016-9782-2, online.
3. Gueudet, G. (2017). University Teachers' Resources Systems and Documents. *International Journal of Research in Undergraduate Mathematics Education*, 198-224.
4. Poisard, C., Gueudet, G., & Robin, R. (2016). Ressources technologiques en mathématiques : les grands nombres au CM1. *Math-Ecole* 226, 18-22.
5. Gueudet, G., Pepin, B., & Trouche, L. (2016). Manuels scolaires et ressources numériques : vers de nouvelles conceptualisations. *EM TEIA, Revista de Educação Matemática e Tecnológica Iberoamericana* 6(3)
<http://www.gente.eti.br/revistas/index.php/emteia/article/view/335>
6. Gueudet, G., & Bueno-Ravel, L. (2016). Perspectives didactiques sur le boulier : un questionnement renouvelé. In Poisard, C. (ed.) *Mathematice 51 numéro special Les ressources virtuelles et matérielles en mathématiques : des instruments pour travailler en classe sur le nombre, la numération et le calcul* <http://revue.sesamath.net/spip.php?article887>
7. Gueudet, G., Pepin, B., Sabra, H., & Trouche, L. (2016). Collective design of an e-textbook: teachers' collective documentation. *Journal of Mathematics Teacher Education*, 19(2-3), 187-203.
8. Gueudet, G. & Lebaud, M.-P. (2016). Comment les enseignants de mathématiques choisissent les manuels ? Etude sur le cas de manuels de seconde, édition 2014. *Repères IREM* 102, 85-97.
9. Bueno-Ravel, L. & Gueudet, G. (2015). Quelles ressources pour les professeurs des écoles et leurs formateurs ? Apports de la recherche en didactique. *Grand N* 96, 71-89.
10. Gueudet, G., Lebaud, M.-P. (2015). Usage des technologies et investigation en mathématiques : quels contrats didactiques possibles ? *Recherches en éducation* 21, 81-94. <http://www.recherches-en-education.net/spip.php?article308>
11. Poisard, C., Kervran, M., Le Pipec, E., Alliot, S., Gueudet, G., Hili, H., Jeudy-Karakoç, N., Larvol, G. (2014). Enseignement et apprentissage des mathématiques à l'école primaire dans un contexte bilingue breton-français *Spirale* 54, 129-150.
12. Gueudet, G., Buteau, C., Mesa, V., & Misfeldt, M. (2014). Instrumental and documentational approaches: from technology use to documentation systems in university mathematics education. *Research in Mathematics Education*, 16(2), 139-155.
13. Nardi, E., Biza, I., González-Martín, A. S., Gueudet, G., & Winsløw, C. (2014). Institutional, sociocultural and discursive approaches to research in university mathematics education. *Research in Mathematics Education*, 16(2), 91-94.
14. Gueudet, G., Pepin, B., & Trouche, L. (2013). Collective work with resources : an essential dimension for teacher documentation. *ZDM, The International Journal on Mathematics Education*, 45(7),1003-1016.
15. Pepin, B., Gueudet, G., & Trouche, L. (2013). Re-sourcing teachers' work and interaction: a collective perspective on resources, their use and transformation. *ZDM, The International Journal on Mathematics Education*, 45(7), 929-943.
16. Pepin, B., Gueudet, G., & Trouche, L. (2013). Investigating textbooks as crucial interfaces between culture, policy and teacher curricular practice: two contrasted case studies in France and Norway. *ZDM, The International Journal on Mathematics Education*, 45(5), 685-698.

17. Gueudet, G., Sacristan, A.I., Soury-Lavergne, S. & Trouche, L. (2012). Online paths in mathematics teacher training : new resources and new skills for teacher educators, *ZDM, The International Journal on Mathematics Education*, 44(6), 717- 731.
18. González-Martin A., Gueudet G., Iannone P., Nardi E., Winsløw C. (2012). CERME7 Working Group 14 : University mathematics education, *Research in Mathematics Education*, 14(2), 209-210.

Books or special issues as editor (2012-2016)

1. Gueudet, G., Bosch, M., diSessa, A., Kwon, O.-N., Verschaffel (2016). Transitions in mathematics education. ICME13 Topical survey series. New York, NY: Springer.
2. Albero, B., Gueudet, G., Eneau, J., Blocher, J.-N. (2015). Formes d'éducation et processus d'émancipation. Rennes : Presses Universitaires de Rennes, 151 p Païdeia,
3. Nardi, E., Biza, I., González-Martín, A. S., Gueudet, G., & Winsløw, C. (2014). Institutional, sociocultural and discursive approaches to research in university mathematics education. *Research in Mathematics Education*, 16(2), special issue.
4. Pepin, B., Gueudet, G., & Trouche, L. (2013, Eds). Resourcing teacher work and interaction: new perspectives on resources design, use, and teacher collaboration. *ZDM, The International Journal on Mathematics Education*, special issue 45 (7).
5. Gueudet, G., Pepin, B., & Trouche, L. (Eds.) (2012). *From Textbooks to 'Lived' Resources: Mathematics Curriculum Materials and Teacher Documentation*. New York: Springer.

Book chapters (2012-2016)

1. Gueudet, G. (2016). What transitions in mathematics education? Review of the literature. In Gueudet, G., Bosch, M., diSessa, A., Kwon, O.-N., Verschaffel, L. *Transitions in mathematics education. ICME13 Topical survey series*. (pp. 5-10). New York, NY: Springer.
2. Gueudet, G. (2015). Resources at the core of mathematics teachers' work, In S.J. Cho, (Ed.) *Selected regular lectures from the 12th International congress on mathematical education* (pp.234-251), New York, NY: Springer.
3. Pepin, B., Gueudet, G., Yerushalmy, M., Trouche, L., & Chazan, D. (2015). e-textbooks in/for Teaching and Learning Mathematics: A Disruptive and Potentially Transformative Educational Technology. In L. English, & D Kirshner (Eds.), *Handbook of International Research in Mathematics Education* (pp. 636-661). New York: Taylor & Francis.
<http://www.tandf.net/books/details/9780203448946/>
4. Bueno-Ravel, L., & Gueudet, G. (2013). L'approche instrumentale des genèses d'usage : le cas des bases d'exercices en ligne. Des technologies aux ressources numériques, genèses d'usages et genèses documentaires. In J.-B. Lagrange (Ed.) *Les technologies numériques pour l'enseignement - Usage, dispositif et genèses*. (pp. 55-70) Toulouse : Octarès.
5. Gueudet, G., Bueno-Ravel, L. & Poisard, C. (2013). Teaching mathematics with technology at kindergarten: resources and orchestrations. In Clark-Wilson, A., Robutti, O., Sinclair, N. (Eds.) *The mathematics teacher in the digital era*. (pp.213-240) New York: Springer.
6. Gueudet, G., Trouche, L. & Sabra, H. (2013). Des technologies aux ressources numériques : genèses d'usage et genèses documentaires. In J.-B. Lagrange (Ed.) *Les technologies numériques pour l'enseignement - Usage, dispositif et genèses*. (pp. 129-144) Toulouse : Octarès.
7. Trouche, L., Drijvers, P., Gueudet, G., & Sacristan, A. I. (2013). Technology-Driven Developments and Policy Implications for Mathematics Education. In A. J. Bishop, M. A. Clements, C. Keitel, J. Kilpatrick & F. K. S. Leung (Eds.), *Third International Handbook of Mathematics Education*. (pp. 753-789) Dordrecht: Springer.
8. Gueudet, G. & Lebaud, M.-P. (2013). Démarches d'investigation en sciences, collectifs dans la formation des enseignants, enquête sur un lien complexe. In Grangeat, M. (dir.) *Des*

enseignants de sciences face aux démarches d'investigation. Des formations et des pratiques de classe. (pp. 95-114) Grenoble : Presses Universitaires de Grenoble.

9. Gueudet, G., & Trouche, L. (2012a). Teachers' work with resources : documentational geneses and professional geneses, in Gueudet, G., Pepin, B., & Trouche, L. (Eds.), *From text to 'lived resources' : curriculum material and mathematics teacher development*, (pp. 23- 41). New York : Springer.
10. Gueudet, G., & Trouche, L. (2012b). Communities, documents and professional geneses : interrelated stories, in Gueudet, G., Pepin, B., & Trouche, L. (Eds.), *From text to 'lived resources' : curriculum material and mathematics teacher development*, (pp. 305- 322). New York : Springer.

Invited conferences (2012-2016)

Gueudet, G. (2016). Concepción y uso de recursos en matematica: Trabajo documental y formación de yed c EMytKU

- Gueudet, G., & Pepin, B. (2015). Didactic contract and secondary-tertiary transition: a focus on resources and their use. KHDM Conference, Hannover, Germany.
- Gueudet, G., Pepin, B., Sabra, H., Trouche, L. (2014). The design of and interaction with e-textbooks: A collective teacher engagement. In Jones, K., Bokhove, C., Howson, G. and Fan, L. (eds.) (2014) Proceedings of the International Conference on Mathematics Textbook Research and Development (ICMT-2014), Southampton, GB, University of Southampton, (pp. 239-244).
- Besnier, S., Bueno-Ravel, L., Gueudet, G. & Poisard, C. (2013). Conception et diffusion de ressources pour la classe issues de la recherche. L'exemple des apprentissages numériques à l'école. D. Butlen, (Dir.) Actes de l'école d'été 17 de didactique des mathématiques, Nantes.
- Gueudet, G., Pepin, B., & Trouche, L. (2013). Textbooks' Design and Digital Resources. In C. Margolinas (Ed.), *Task Design in Mathematics Education* (pp. 327-337), *Proceedings of ICMI Study 22*, Oxford, retrieved July 2014 from http://hal.archives-ouvertes.fr/docs/00/83/74/88/PDF/ICMI_STudy_22_proceedings_2013-FINAL_V2.pdf
- Gueudet, G. (2013). Digital resources and mathematics teacher development at university. In B. Ubuz, C. Haser, M.A. Mariotti, *Proceedings of the Eighth Congress of the European Mathematical Society for Research in Mathematics Education* (pp. 2336-2345). Antalya, Turkey.
- Lebaud, M.-P. & Gueudet, G. (2012). Démarches d'investigation et collectifs en formation des enseignants, *Colloque Espace des Mathématiques Francophones 2012*, Genève, Suisse.