Riadh Besbes

Expert and Trainer at Ryadh Consulting,
Tunisia



Personal Information

Tunisian,

Born on 23 June 1965 at Monastir, Tunisia,

Married, five children,

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Qualifications

- **PhD "Information Systems Engineering":** National Engineering Institute of Sfax (ENIS), University of Sfax, Tunisia, May 2012. I developed an intelligent grid that evaluates teaching and learning effectiveness during classrooms educational practices.
- **Masters of Ergonomics:** Faculty of Medicine, Monastir, Tunisia, June 2010. I led 150 study cases that proved that the statistical analysis part of the teaching and learning effectiveness assessment system was reliable and has a large impact on teachers' professional development.
- **Masters of Electronics and instruments**: Faculty of Sciences, Monastir, Tunisia, July 2002.
- **Bachelor of Physics:** Faculty of Sciences, Monastir, Tunisia, July 1989.

Experience

PhET Fellow in the 2023-2024 program: Program Description PhET Fellows are practicing educators committed to: (1) advancing student learning of math and science; (2) improving teacher learning and uptake of math and science pedagogies; and (3) engaging in professional leadership growth through activities that increase accessibility and impact of PhET simulations. I served as the central actor of the PhET Global Community by leveraging their direct link to PhET team members and their robust professional networks. The 18-month Fellowship included 80+ hours of professional learning (May - October 2023) and 70+ hours of PhET-coached independent professional leadership practice (November 2023 - October 2024).

Education Expert (2016-2020) at the National Observatory for Sustainable Development and future foresight, within the General Secretariat of the Supreme Council for Planning and Development (SCPD) in Kuwait from Apr. 2016 to Apr. 2020. As principal author, I wrote the first draft of Kuwait sustainable development goals report and present it to the high SDG committee in SCPD on 4th of April 2018.

Inspector (2005 – until now) at the Ministry of education, Tunisia, from Sep. 2005 to Apr. 2016 and from 2020 until now: I had three main missions, which I achieved based on data analysis approach:

- Teachers' evaluation.
- Teachers' training.
- Educational innovation.

Physics Assistant (Volunteer) (2011 – 2013) at the Department of Physics, Preparatory Institute for Engineering Studies Monastir, Tunisia, (IPEIM**),** from Sep. 2011 to Jun.2013: I had the responsibility to teach physics courses on:

1. Mechanics,
2. Electrostatics,
3. Optics,

Physics Teacher (Secondary schools) (1989 – 2005) under the auspice of the ministry of education in Tunisia, from Sep. 1989 to Jun.2005, I had the responsibility to teach physics and chemistry courses at Tunisian secondary schools.

Long Training Session

Inspector

National Centre of Training the trainers in Education (CENAFFE) Carthage, Tunisia, **SEP.** 2005 – Aug.2007: Alternatively, following theoretical courses for inspection's professional development and practicing teachers' assessment within schools.

Courses learnt:

1. Educational science,
2. Professional development engineering,
3. Sociology,
4. Teaching assessment,
5. Learning assessment,
6. Pedagogy,
7. Statistics

Language Skills

- Bilingual Arabic and French
- Competent in English

Research Interest

- Educational policies
- Teaching effectiveness evaluation.
- Learning performance assessment.
- Data Analysis in Education.

Publications list

Journals' articles:

1) S. Besbes, B. Twala, **R. Besbes**, "Making Teaching and Learning Effective Using Analytics", Journal of Educational Technology Systems, Vol. 50, 3: pp. 409 -425. Published March 2022.
2) **Besbes, R.**, Fournier, C., Ghram, R. & Alimi, A-M. (2010). Evaluation ergonomique de l'encadrement des enseignants de sciences physiques en Tunisie. Pour une meilleure harmonie en enseignement et apprentissage. Revue Education & Formation n°e-294-Octobre 2010, ISSN 2032-8184, pp. 105-118.

http://ute3.umh.ac.be/revues/include/download.php?idRevue=10&idRes=87

Theses:

1) **R. Besbes**, "Hierarchical fuzzy system for Teaching effectiveness assessment," PhD "Information Systems Engineering", May 2012, Dept. of *Electrical engineering,* National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
2) **R. Besbes**, "Cognitive Ergonomics: Teaching effectiveness Assessment," Masters of Ergonomics, Jun. 2010, Faculty of Medicine, University of Monastir, Tunisia.
3) **R. Besbes**, "Simulation platform in physics," Masters of electronics and instruments, July. 2002, *Faculty of sciences, University of Monastir*, Tunisia.

Conferences' papers:

1) **R. Besbes** and S. Besbes, "Cognitive dashboard for teachers' professional development", in Qatar Foundation Annual Research Conference Proceedings Volume 2016 Issue 1, 2016, vol. 2016, no. 1, p. ICTPP2984.
2) **R. Besbes** and S. Besbes, "Educational data mining that supports quality teaching: How to create a culture of data in educational policies," 2016 IEEE Global Engineering Education Conference (EDUCON), 2016, pp. 933-940, doi: 10.1109/EDUCON.2016.7474664.
3) **Besbes,R.**, Besbes, S. & Bekhisipho, T. (2015). DataMining for Teaching and Learning Effectiveness Enhancement. *International Forum on Engineering Education 2015 (IFEE 2015).* The Forum is held during 17-19 March 2015 at the University of Sharjah, United Arab Emirates.

http://www.sharjah.ac.ae/IFEE2015

4) **Besbes,R**., Besbes, S., & Bekhisipho, T. (2015). Estimating "Teaching Effectiveness" using Classification. *The Second Machine Learning and Data Analytics (MLDAS) Symposium*. The Symposium is held on March 9-10, 2015 in Doha, Qatar.

http://www.mldas.org/

5) **Besbes, R.**, Tourki R. &Gorce, P. (2013). Engineering analysis for educational concepts' assessment, **(IEDEC 2013 Best Paper).** IEDEC 2013, **3rd Interdisciplinary Engineering Design Education Conference, March 4-5, 2013. Santa Clara, CA, United States of America.**
6) **Besbes, R.**, Benkhelifa, M.M., Gorce, P. & Alimi, A.M. (2010). Intelligent evaluation in educational context. *IEEE EDUCON - Education Engineering 2010: Conférence internationale sur l'enseignement universitaire des ingénieurs*.3 - 5 Avril, Madrid, Espagne.
7) **Besbes, R.**, Fekih, K. Alimi, A.M. (2010). Observateur intelligent du comportement humain en contexte d'enseignement apprentissage. *TiceMed 2010 : Colloque international qui s'est déroulé à l'Université Antonine-Baabda,*11 - 12 Mai, Beyrouth (Liban).
8) **Besbes, R.** & Alimi, A.M. (2009). Quantification du comportement humain en contexte d'enseignement apprentissage **(SAPEV 2009 Best Paper).** *SAPEV : Séminaire annuel sur les pratiques de l'enseignement virtuel,* 28 Mai 2009, Kairouan (Tunisie).
9) **Besbes, R.** Bédoui, H. & Alimi, A.M. (2009). Observateur intelligent du comportement humain en contexte d'enseignement apprentissage. *5th International Symposium on*

Distance Education: learning technologies, pedagogy, web and networks. 30 Juillet - 01 Aout, Mahdia, (Tunisie).

10) **Besbes, R.** & Alimi, A.M. (2009). Observateur intelligent du comportement humain en contexte d'enseignement apprentissage. *Cem09 – International Congress on Cognition, Emotion & Motivation*, 2 – 5 Novembre 2009, Medina Yasmine Hammamet (Tunisie).
11) **Besbes, R.** & Alimi, A.M. (2008). Poster : Quantification des comportements humains en contexte d'enseignement apprentissage. CEMAFORAD 4 : *Colloque Euro-Méditerranéen et Africain d'Approfondissement sur la formation à Distance*, 9-11 Avril, Strasbourg (Tunisie).
12) **Besbes, R.** Bouslama, F. &Alimi, A.M. (2008). Evaluation des acteurs du contexte d'enseignement apprentissage. *AIPU* : *Conférence internationale sur la pédagogie universitaire*, 19-22 Mai, Montpelier (France).
13) **Besbes, R.** &M'Sahli, F. (2006). Différenciateur sémantique : Outil d'évaluation des enseignants basé sur un contrôleur flou. CEMAFORAD 3 : *Colloque Euro-Méditerranéen et Africain d'Approfondissement sur la formation à Distance*, 13-15 Novembre, Sousse (Tunisie).
14) **Besbes, R.** & M'Sahli, F. (2006). Identification des systèmes Multi Variables : Méthodes des sous-espaces. *STA : 7ème Conférence internationale sur les sciences et les techniques du contrôle automatique,* 17-19 Décembre, Hammamet (Tunisie).
15) **Besbes, R.** & Alimi, A.M. (2004). Pedagogical benefits from a well-conceived virtual laboratory of robotics. *WCC 18th IFIP World Computer Congress*, August 22-27, Toulouse (France).

Book chapters:

1) **R. Besbes** (2016), Teaching and Learning Effectiveness Enhancement Project (TLEEP), pp. 53-70, ICT in Education in Global Context, the best practices in K-12 schools. Springer edition, ISSN 2196-4963, ISBN 978-981-10-0372-1, DOI 10.1007/978-981-10-0373-8.
2) **R. Besbes** (2016), Learning Effectiveness Enhancement Project (LEEP), pp. 71-82, ICT in Education in Global Context, the best practices in K-12 schools. Springer edition, ISSN 2196-4963, ISBN 978-981-10-0372-1, DOI 10.1007/978-981-10-0373-8.

3) **R. Besbes** (2016), Teaching Effectiveness Enhancement Project (TEEP), pp. 83-106, ICT in Education in Global Context, the best practices in K-12 schools. Springer edition, ISSN 2196-4963, ISBN 978-981-10-0372-1, DOI 10.1007/978-981-10-0373-8.

4) **Besbes, R.**, Kabil, F. & Alimi, A-M. (2012). Intelligent Evaluation in Educational Context. *Engineering Education in the 21st Century Quality, Globalization and Local Relevance (IFEE 2010)*.

https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnxpZmVlb25saW5lfGd4OjFiY2JhMzNjZDJmMjFiMTA&pli=1

5) **Besbes, R.**, Ghram, R., Khelifa, M.M., & Gorce Ph. (2012). Deuxième partie, chapitre 5 : enjeux d'usage, d'acceptation et d'appropriation de technologies dans les pratiques professionnelles. Vacherand-Revel, J., Dubois, M., Bobillier Chaumon,M.E., Kouabenan, R. & Sarnin P. (2014). Changements organisationnels et technologiques : nouvelles pratiques de travailet innovations managériales. Paris : L'Harmattan.

http://www.aiptlf2012.com/1/ouvrages_1_harmattan_621170.html

6) **Besbes, R.**, (2015).للتشخيص الدّقيق والتقييم الناجع في الوسط الدِّراسيآليات استخراج البيانات. Arabic Journal of Information and Communication Technologies edited by Arab league educational, cultural and scientific organization (ALECSO).

http://www.alecso.org/site/2015-04-01-12-13-13/2015-04-02-11-41-03/isdarat/233111/2015/ictineducation.html