

Miguel A. Sorrel, PhD

Curriculum Vitae – January 2023

Department of Social Psychology and Methodology – Faculty of Psychology
Universidad Autónoma de Madrid

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ORCID: [0000-0002-5234-5217](https://orcid.org/0000-0002-5234-5217) – [Google Scholar](#) – [Research Gate](#) – [Github](#)

	Google Scholar
Number of citations	987
<i>h</i> -index	15
<i>h</i> 10-index	21

APPOINTMENTS

- ◇ Department of Social Psychology and Methodology, Universidad Autónoma de Madrid
 - **Assistant Professor**, September 2019 – present
 - **Temporary Associate Professor**, September 2018 – August 2019
 - **Postdoctoral Fellow**, May 2018 – September 2018
 - **Predoctoral Fellow**, May 2015 – April 2018
 - **Intern at the UAM-IIC Chair of Psychometric Models and Applications**, January 2014 – May 2015
- ◇ Faculty of Education, Division of Learning, Development and Diversity, University of Hong Kong
 - **Research Assistant**. Supervisor: Prof. Jimmy de la Torre, March 2019 – April 2019
 - **Honorary Research Associate** Supervisor: Prof. Jimmy de la Torre, March 2017 – June 2017

EDUCATION

- ◇ Universidad Autónoma de Madrid
 - **PhD in Clinical and Health Psychology (Psychometrics)**, September 2014 – April 2018
Advances in Cognitive Diagnosis Modeling (Supervisors: Francisco J. Abad and July Olea)
Summa Cum Laude
 - **Master in Methodology of Health and Behavioral Sciences**, September 2013 – June 2015
 - **Degree in Psychology**, September 2008 – June 2013

RESEARCH VISITS

- ◇ Research stay at The University of Hong Kong (Hong Kong), in the group of Prof. Jimmy de la Torre, February 2017 – June 2017
- ◇ Research stay at Rutgers, The State University of New Jersey (USA), in the group of Prof. Jimmy de la Torre, January 2016 – April 2016

RESEARCH INTERESTS

- ◇ Item response theory, Cognitive diagnosis modeling, Computerized adaptive testing, Statistical computing in R

GRANTS AND RESEARCH PROYECTS

- ◇ **Principal investigator** in the project *Study of statistical procedures for diagnostic evaluation in educational contexts* funded by the Community of Madrid through the Pluriannual Agreement with the Universidad de Universidad Autónoma de Madrid in its Programa de Estímulo a la Investigación de Jóvenes Doctores. January 2022 – December 2024.
- ◇ **Principal and sole investigator** in the project *Development of a forced-choice computerized adaptive test based on item response theory* for the company FACTHUM TALENT MANAGEMENT, SL. The tasks performed included item revision, item blocks construction, estimation of the multidimensional model, and development of the adaptive algorithm in R. July 2019 – January 2020.
- ◇ Ministry of Economy, Industry and Competitiveness of Spain Grant PSI2017-85022-P: *Multidimensional computerized adaptive test: Improvements in the item bank calibration and item selection algorithms*. Lead investigators: Francisco J. Abad and Julio Olea. **Part of the work team**, January 2018 – December 2020
- ◇ Universidad Autónoma de Madrid, Teaching Innovation Program 2019-2020: *Development of a computerized application for formative assessment and self-assessment of competencies*. Lead investigators: Miguel A. Sorrel y Rodrigo S. Kreitchmann. **Coordinator**, October 2019 – June 2020
- ◇ Ministry of Economy, Industry and Competitiveness of Spain Grant PSI2013-44300-P: *Computerized Adaptive Tests for new psychometric models*. Lead investigators: Francisco J. Abad and Julio Olea. **Predoctoral fellow / Postdoctoral fellow**, May 2015 – September 2018

AWARDS AND ACHIEVEMENTS

- ◇ Early Career Award International Association for Computerized Adaptive Testing (2022)
- ◇ Best Poster Award for the paper Adaptive online classification using the cdcats application by Sorrel and Nájera granted by the Spanish Association of Methodology of Behavioral Sciences (AEMCCO) at its XVII Congress held in 2022.
- ◇ Best Poster Award for the paper Validating the Big Five: factorial and/or psychometric networks? by Franco-Martínez, Sorrel and Alvarado awarded by the Iberoamerican Association for the Investigation of Individual Differences (AIIDI) at its 10th conference held in 2021.
- ◇ Outstanding dissertation award by the Universidad Autónoma de Madrid in its 2017/2018 edition
- ◇ Young Methodologist 2016 European Association of Methodology award
- ◇ Excellence Scholarship by The Autonomous Community of Madrid (2012)

PHD STUDENTS

- ◇ Committee Chair and Co-Chair*

Juan Carlos Peñafiel*:	Measuring career orientation	September 2026
Pablo Nájera*:	Model Specification in MIRT	February 2023
Rodrigo S. Kreitchmann*:	Forced-Choice Test Modeling	April 2022

OPEN-SOURCE SOFTWARE



cdcatR R package - <https://cran.r-project.org/web/packages/cdcatR>

cdcatR: Cognitive Diagnostic Computerized Adaptive Testing

Creator, Author, Creator, Maintainer

Tutorial: https://adeit-estaticos.econgres.es/20_EAM/Oral/46640_Sorell.pdf



cdmTools R package- <https://github.com/Pablo-Najera/cdmTools>

cdcatR: Cognitive Diagnostic Computerized Adaptive Testing

Creator, Author



FoCo - <https://foco.shinyapps.io/FoCo/>

FoCo: Application for Formative Evaluation in Competencies

Creator, Author, Maintainer

GDINA R package - <https://cran.r-project.org/web/packages/GDINA/>

GDINA: The Generalized DINA Model Framework

Contributor

cdcatS: A Shiny App for Formative Assessment and Self-Evaluation of Competencies, co-author, <https://psychometricmodelling.shinyapps.io/cdcatS/>

FCoptimization: A Genetic Algorithm for the Optimal Assembly of Pairwise Forced-Choice Questionnaires, co-author, <https://psychometricmodelling.shinyapps.io/FCoptimization/>

PUBLICATIONS (* Graduate Student Co-Authors)

◇ Refereed articles accepted (#38)

³⁸Sanz, S., Kreitchmann*, R. S., Nájera*, P., Moreno, J. D., Martínez-Huertas, J. A., & **Sorrel, M. A.** FoCo: A Shiny app for formative assessment using cognitive diagnosis modeling. *Psicología Educativa*.

³⁷Horcajo, J., Gil, Rafael, & **Sorrel, M. A.** Adaptation to Spanish of the Need for Affect Questionnaire Need for affect scale validation. *Goal: Psicothema*.

◇ Refereed articles published (#34)

³⁶Collado, S., Fidalgo, C., Rodríguez-Rey, & **Sorrel, M. A.**^m. Development of a self-efficacy scale for writing and defending academic texts. *Psicología Educativa*. 29(1) 91-99.

³⁵Gámez-Guadix, M., **Sorrel, M. A.**, & Martínez-Bacaicoa, J. Technology facilitated sexual violence perpetration and victimization among adolescents: A network analysis. *Sexuality Research and Social Policy*. <https://doi.org/10.1007/s13178-022-00775-y>

³⁴Kreitchmann, R. S., de la Torre, J., **Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2022). Improving reliability estimation in cognitive diagnosis modeling. *Behavior Research Methods*, 1-15. <https://doi.org/10.3758/s13428-022-01967-5>

³³Gutierrez, F., Aluja, A., Ruiz-Rodríguez, J., Peri, J., Gárriz, M., García, L., **Sorrel, M. A.**, Sureda, B., Vall, G., Ferrer, M., & Calvo, N. Borderline, Where are you? A psychometric and symptomatic approach to the ICD-11 personality domains (2022). *Personality Disorders: Theory, Research, and Treatment*. <https://doi.org/10.1037/per0000592>

³²Kreitchmann*, R., **Sorrel, M. A.**, & Abad, F. J. (2022). On bank assembly and block selection in multidimensional forced-choice adaptive assessments. *Educational and Psychological Measurement*. <https://doi.org/10.1177/00131644221087986>

³¹Franco-Martínez, A., Alvarado, J., & **Sorrel, M. A.** (2022). Range restriction affects factor analysis: Normality, estimation, fit, loadings, and reliability. *Educational and Psychological Measurement*. <https://doi.org/10.1177/00131644221081867>

³⁰Urieta, P. **Sorrel, M. A.**^m, Aluja, A., Balada, F., Lacomba, E., & García, L. F. Exploring the relationship between personality, decision-making styles, and problematic smartphone use (2022). *Current Psychology*. <https://doi.org/10.1007/s12144-022-02731-w>

²⁹Abad, F. J., Kreitchmann*, R. S., **Sorrel, M. A.**, Nájera, P., García-Garzón, E., Garrido, L. E., Jiménez, M. (2022). Building adaptive forced choice tests “on the fly” for personality measurement. *Papeles del Psicólogo*, 43, 29-35. <https://doi.org/10.23923/pap.psicol.2982>

²⁸Shi, Q., Ma, W., Robitzsch, A., **Sorrel, M. A.**, Man, K. (2021). Cognitive diagnosis analysis in the G-DINA model using R. *Psych*, 3(4), 812-835. <https://doi.org/10.3390/psych3040052>

²⁷Kreitchmann*, R. S., Abad, F. J., & **Sorrel, M. A.** (2022). A genetic algorithm for optimal assembly of pairwise forced-choice questionnaires. *Behavior Research Methods*, 54, 1476-1492 <https://doi.org/10.3758/s13428-021-01677-4>

²⁶**Sorrel, M. A.**, Aluja, A., García, L. F., & Gutiérrez, F. (2022). Psychometric Properties of the Five-Factor Personality Inventory for ICD-11 (FFiCD) in Spanish Community Samples. *Psychological Assessment*. 34(3), 281-293. <https://doi.org/10.1037/pas0001084>

²⁵Aluja, A., **Sorrel, M. A.**, García, L., García, O., & Gutiérrez, F. (2022). Factor convergence and predictive analysis of the Five Factor and Alternative Five Factor personality models with the Five-Factor Personality Inventory for ICD11 (FFiCD). *Journal of Personality Disorders*. 36(3):296-319. doi: 10.1521/pedi_2012_35_542

²⁴**Sorrel, M. A.**, Nájera*, P., & Abad, F. J. (2021). cdcats: An R Package for Cognitive Diagnostic Computerized Adaptive Testing. *Psych*, 3(4), 386-403. <https://doi.org/10.3390/psych3030028>

²³**Sorrel, M. A.**, García, L. F., Aluja, A., Rolland, J. P., Rossier, J., Roskam, I., & Abad, F. J. (2021). Cross-Cultural Measurement Invariance in the Personality Inventory for DSM-5. *Psychiatry Research*. <https://doi.org/10.1016/j.psychres.2021.114134>

- ²²Collado, S., Rodríguez-Rey, R., & **Sorrel, M. A.** (2021). Does beauty matter? The effect of perceived attractiveness on children's moral judgments of harmful actions against animals. *Environment and Behavior*. doi:0013965211014626
- ²¹Nájera*, P., Abad, F. J., & **Sorrel, M. A.**^m (2021). Determining the number of attributes in cognitive diagnosis modeling. *Frontiers in Psychology*. doi:10.3389/fpsyg.2021.614470
- ²⁰Nájera*, P., **Sorrel, M. A.**, de la Torre, J., & Abad, F. J. Balancing fit and parsimony to improve Q-matrix validation (2021). *British Journal of Mathematical and Statistical Psychology*. doi:10.1111/bmsp.12228
- ¹⁹**Sorrel, M. A.**, Abad, F.J., & Nájera*, P. (2020). Improving accuracy and usage by correctly selecting: The effects of model selection in cognitive diagnosis computerized adaptive testing. *Applied Psychological Measurement*, 42, 112-129. doi:10.1177/0146621620977682
- ¹⁸**Sorrel, M. A.**, Martínez-Huertas, J., & Arconada, M. (2020). It must have been burnout: Prevalence and related factors among Spanish PhD students. *The Spanish Journal of Psychology*, 23, E29. doi:10.1017/SJP.2020.31
- ¹⁷**Sorrel, M. A.**, Barrada, J. R., de la Torre, J., & Abad, F. J. (2020). Adapting cognitive diagnosis computerized adaptive testing item selection rules to traditional item response theory. *PLoS One* 15(1): e0227196. doi:10.1371/journal.pone.0227196
- ¹⁶Nájera*, P., **Sorrel, M.A.**, de la Torre, J., & Abad, F. J. (2020). Improving robustness in Q-matrix validation using an iterative and dynamic procedure. *Applied Psychological Measurement*. 44(6), 431-446, doi:10.1177/0146621620909904
- ¹⁵Collado, S., & **Sorrel, M. A.** (2019). Children's environmental moral judgments: Variations according to type of victim and exposure to nature. *Journal of Environmental Psychology*, 62,42-48.
- ¹⁴Nájera*, P., **Sorrel, M. A.**, & Abad, F. J. (2019). Reconsidering cutoff points in the general method of empirical Q-matrix validation. *Educational and Psychological Measurement*, 79, 727-753.
- ¹³Yigit, H., **Sorrel, M. A.**^m, & de la Torre, J. (2019). Computerized adaptive testing for cognitively based multiple-choice data. *Applied Psychological Measurement*, 43, 388-401.
- ¹²Abad, F. J., **Sorrel, M. A.**, García, L.F., & Aluja, A. (2018). Modeling general, specific, and method variance in personality measures: Results for ZKA-PQ and NEO-PI-R. *Assessment*, 25, 959-977.
- ¹¹Collado, S., Evans, G., & **Sorrel, M. A.** (2017). The role of parents and best friends in children's pro-environmentalism: differences according to age and gender. *Journal of Environmental Psychology*, 54, 27-37.
- ¹⁰**Sorrel, M. A.**, de la Torre, J., Abad, F. J., & Olea, J. (2017). Two-step likelihood ratio test for item-level model comparison in cognitive diagnosis models. *Methodology*, 13, 39-47.
- ⁹**Sorrel, M. A.**, Abad, F. J., Olea, J., de la Torre, J., & Barrada, J. R. (2017). Inferential item fit evaluation in cognitive diagnosis modeling. *Applied Psychological Measurement*, 41, 614-631.
- ⁸Collado, S., Staats, H., & **Sorrel, M. A.** (2016). A relational model of perceived restorativeness: Intertwined effects of obligations, familiarity, security and parental supervision. *Journal of Environmental Psychology*, 48, 24-32.
- ⁷Cabello, R., **Sorrel, M. A.**, Fernández-Pinto, I., Extremera, N., & Fernández-Berrocal, P. (2016). Age and gender differences in ability emotional intelligence in adults: A cross-sectional study. *Developmental Psychology*, 52, 1486-1492.
- ⁶**Sorrel, M. A.**, Olea, J., Abad, F. J., de la Torre, J., Aguado, D., & Lievens, F. (2016). Validity and reliability of situational judgement test scores: A new approach based on cognitive diagnosis models. *Organizational Research Methods*, 19, 506-532.
- ⁵Collado, S., Staats, H., & **Sorrel, M. A.** (2016). Helping out on the land: Effects of children's role in agriculture on reported psychological restoration. *Journal of Environmental Psychology*, 45, 201-209.
- ⁴Abad, F. J., **Sorrel, M. A.**, Román, F. J., & Colom, R. (2015). The relationships between WAIS-IV factor index scores and educational level: A bifactor model approach. *Psychological Assessment*, 28, 987-1000.
- ³Collado, S., Evans, G. W., Corraliza, J. A., & **Sorrel, M. A.** (2015). The role played by age on children's pro-ecological behaviors: An exploratory analysis. *Journal of Environmental Psychology*, 44, 85-94.
- ²Lievens, F., Corstjens, J., **Sorrel, M. A.**, Abad, F. J., Olea, J., & Ponsoda, V. (2015). The cross-cultural transportability of situational judgment tests: How does a US-based integrity situational judgment test fare in España?. *International Journal of Selection and Assessment*, 23, 361-372.

- ¹Collado, S., Corraliza, J. A., **Sorrel, M. A.**, & W Evans, G. (2015). Spanish version of the Children's Ecological Behavior (CEB) scale. *Psicothema*, 26, 82-87.
- ◇ Proceedings
- ⁵Iglesias, D., **Sorrel, M. A.**, & Olmos, Ricardo (2022). *Linking modal and amodal representations through language computational models*. Presentado online en International Psychological Applications Conference and Trends (Impact 2022), Madeira, Portugal. <https://doi.org/10.36315/2022inpact105>. Available at <http://inpact-psychologyconference.org/proceedings/>
- ⁴**Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2022). Cognitive diagnostic computerized adaptive testing in R using the cdcater package. Proceedings of the 9th European Congress of Methodology celebrated in Valencia, España. Available at <https://roderic.uv.es/handle/10550/81887>.
- ³Nájera, P., **Sorrel, M. A.**, de la Torre, J., & Abad, F. J. (2022). A cutoff-free method for 4-matrix validation. Proceedings of the 9th European Congress of Methodology celebrated in Valencia, España. Available at <https://roderic.uv.es/handle/10550/81887>.
- ²Iglesias, I., **Sorrel, M. A.**, & Olmos, R. (2022). Predicting tweet emotionality via Latent Semantic Analysis. Proceedings of the 9th European Congress of Methodology celebrated in Valencia, España. Available at <https://roderic.uv.es/handle/10550/81887>.
- ¹Nájera, P., Abad, F. J., & **Sorrel, M. A.** (2022). "In medio virtus": Searching for the factor structure between fit and parsimony. Proceedings of the 9th European Congress of Methodology celebrated in Valencia, España. Available at <https://roderic.uv.es/handle/10550/81887>.
- ◇ Keynote (#1)
- Sorrel, M. A.** (2022, septiembre). *On the diagnostic power of items in a pool*. Keynote in 8th Conference of the International Association for Computerized Adaptive Testing celebrated in Frankfurt, Germany.
- ◇ Seminars & Conference Presentations (#75)
- ⁷⁵Martínez-Bacaicoa, J., Mateos-Pérez, E., **Sorrel, M. A.**, Gámez-Guadix, M. (2022, November). *Descripción, prevalencia y prevención del ciberacoso sexual y de género entre adolescentes*. Paper presented at the VIII International Congress of Clinical and Health Psychology on Children and Adolescents, Elche, Spain.
- ⁷⁴Gil, Rafael, Horcajo, J., & **Sorrel, M. A.** (2022, October). Adaptación del test de necesidad de afecto para su uso en castellano. Paper presented at the V Congreso Internacional de la Sociedad Científica Española de Psicología Social, Burgos, Spain.
- ⁷³**Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2022, September). *cdcatR: An R package for cognitive diagnostic computerized adaptive testing*. Paper presented at the 8th Conference of the International Association for Computerized Adaptive Testing, Frankfurt, Germany.
- ⁷²Nájera, P., Abad, F. J., Chiu, C-Y., & **Sorrel, M. A.** (2022, September). *Fixed precision cognitive diagnosis CAT without a calibration sample*. Paper presented at the 8th Conference of the International Association for Computerized Adaptive Testing, Frankfurt, Germany.
- ⁷¹Kreichtmann, R. S., **Sorrel, M. A.**, & Abad, F. J. (2022, September) *Investigating block pool generation in the context of pairwise forced-choice computerized adaptive testing*. Paper presented at the 8th Conference of the International Association for Computerized Adaptive Testing, Frankfurt, Germany.
- ⁷⁰**Sorrel, M. A.**, Nájera, P., Kreichtmann, R. S., Abad, F. J., García, C., Martínez-Molina, A., Collado, S., Martínez-Huertas, J. A., Moreno, J. D., Olmos, R., & Sanz, S. (2022, July). Una aplicación de la evaluación diagnóstica: Medición de competencias en la asignatura de psicometría. Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶⁹Kreichtmann, R. S., de la Torre, J., **Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2022, July). Considerando la incertidumbre de los parámetros en modelos de diagnóstico cognitivo. Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶⁸Nájera, P., Abad, F. J., Chiu, C-Y., & **Sorrel, M. A.** (2022, July). Extrayendo la fiabilidad y el ajuste de evaluaciones diagnósticas en contextos de baja muestra. Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶⁷Iglesias, D., & **Sorrel, M. A.** (2022, July). Estimación directa del error de generalización mediante técnicas de validación cruzada. Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.

- ⁶⁶Abad, F. J., **Sorrel, M. A.**, & Nájera, P. La validez en la aplicación de modelos psicométricos complejos: más allá del ajuste estadístico (2022, July). Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶⁵**Sorrel, M. A.**, & Nájera, P. (2022, July). Clasificación adaptativa en línea mediante la aplicación cdcats. Paper presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶⁴Gil, R., **Sorrel, M. A.**, & Horcajo, J. Propiedades Psicométricas de la Versión en Castellano de la Escala de Necesidad de Afecto (2022, July). Poster presented at the XVII Congreso de Metodología de las Ciencias Sociales y de la Salud, Teruel, Spain.
- ⁶³Collado, S., Rodríguez-Rey, R., Fidalgo, C., **Sorrel, M. A.**, Bermejo-Toro, L., & Prieto-Ursúa, M. (2022, July). *Learning how to use APA guidelines: An innovative educational intervention via Instagram* Virtual presentation at the 14th annual International Conference on Education and New Learning Technologies, Palma de Mallorca, Spain.
- ⁶²Stefa, V. O., **Sorrel, M. A.**, & Aguado, D. (2022, July). *¿Qué factores humanos impactan a la efectividad organizacional? Evidencia desde un umbrella metaanálisis*. Paper presented at the XIII Seminario de la Cátedra de Modelos y Aplicaciones Psicométricos, Madrid, Spain.
- ⁶¹Sorrel, M. A., Nájera, P., & Abad, F. J. (2022, June). *“Where Am I?” Efficient Diagnostic Classification in Educational Settings using cdcatsR*. Paper presented at User! 22. Virtual.
- ⁶⁰Nájera, P., Sorrel, M. A., & Abad, F. J. (2022, June). *cdmTools: An R Package to Facilitate Diagnostic Feedback with Cognitive Diagnosis Modeling*. Paper presented at User! 22. Virtual.
- ⁵⁹Ma, W., **Sorrel, M. A.**, Ge, Y., & Zhai, X. (2022, April). A Dual-Purpose Model for Estimating Ability and Misconceptions. Paper presented at the Annual Meeting of the National Council on Measurement in Education, San Diego
- ⁵⁸Kreitchman, R. S., de la Torre, J., **Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2022, April). More Accurate Estimates of CDM Classification Accuracy. Paper presented at the Annual Meeting of the National Council on Measurement in Education, San Diego.
- ⁵⁷**Sorrel, M. A.**, Nájera, P., Kreitchmann, R. S., de la Torre, J., & Abad, F. J. (2022, April). Minimum Sample Size Requirements for Accurate CD-CAT Classifications. Paper presented at the Annual Meeting of the National Council on Measurement in Education, San Diego.
- ⁵⁶Iglesias, D., **Sorrel, M. A.**, & Olmos, Ricardo (2022, April). *Linking modal and amodal representations through language computational models*. Virtual presentation at the International Psychological Applications Conference and Trends (Impact 2022), Madeira, Portugal.
- ⁵⁵Collado, S., **Sorrel, M. A.**, Fidalgo, C., Rodríguez-Rey, R., & Senís, J. (2022, March), *Self-efficacy for writing and defending academic texts: Scale development and validation*. Poster presented at the 16th International Technology, Education and Development Conference. Virtual conference.
- ⁵⁴Rodríguez-Rey, R., Collado, S., **Sorrel, M. A.**, Fidalgo, C., Bermejo, L., & Prieto-Ursúa, M. (2022, March). Educational intervention through Instagram to improve university students' competence to use the APA format. Paper presented at the 16th International Technology, Education and Development Conference. Virtual conference.
- ⁵³Nájera, P., **Sorrel, M. A.**, & Abad, F. J. (2021, December). *¿Análisis factorial confirmatorio, exploratorio o ninguno de los dos? Una comparación sistemática de técnicas de análisis factorial*. Poster presented at the X Jornadas de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales (AIIDI), Madrid, Spain.
- ⁵²Franco-Martínez, A., **Sorrel, M. A.**, & Alvarado, J. M. (2021, December). *Validando el Big Five: ¿factorial y/o redes psicométricas?* Poster presented at the X Jornadas de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales (AIIDI), Madrid, Spain.
- ⁵¹Aluja, A., **Sorrel, M. A.**, García, L. F., García, O., & Gutierrez, F. (2021, December) *Predictive power of the ZKA-PQ / SF and the NEO-PI-R against the Five-Factor Personality Inventory for ICD-11 (FFICD)*. Paper presented at the X Jornadas de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales (AIIDI), Madrid, Spain.
- ⁵⁰Nájera, P., Abad, F.J., Chiu, C-Y., & **Sorrel, M.A.** (2021, July). *Deriving posterior probabilities from the nonparametric classification method*. Paper presented at the 2021 International Meeting of the Psychometric Society. Virtual conference due to the COVID-19 pandemic.
- ⁴⁹**Sorrel, M. A.**, Nájera, P., Kreitchmann, R. S., & Abad, F. J. (2021, July). *The general discrimination index adjusted by item complexity*. Paper presented at the 9th European Congress of Methodology, Valencia, Spain.
- ⁴⁸Iglesias, D., **Sorrel, M. A.**, & Olmos, R. (2021, July). *Predicting tweets emotionality from latent semantic analysis*. EAM Valencia. Paper presented at the 9th European Congress of Methodology, Valencia, Spain.

- ⁴⁷Kreitchmann, R. S., **Sorrel, M. A.**, & Abad, F. J. (2021, July). *Comparison of selection rules for pairwise forced-choice adaptive assessment*. Paper presented at the 9th European Congress of Methodology, Valencia, Spain.
- ⁴⁶Kreitchmann, R. S., Abad, F. J., & **Sorrel, M. A.** (2021, July). *Optimal assembly of forced-choice questionnaires*. Paper presented at the 9th European Congress of Methodology, Valencia, Spain.
- ⁴⁵Nájera, P., Abad, F. J., & **Sorrel, M. A.** (2021, July). *"In medio virtus": Searching for the factor structure between fit and parsimony*. Paper presented at the 9th European Congress of Methodology, Valencia, Spain.
- ⁴⁴Abad, F. J., Kreitchmann, R. S., **Sorrel, M. A.**, Nájera, P., Jiménez, M. (2021, July). *Construyendo Tests Adaptativos ipsativos "on the fly" para la medición de la personalidad*. Paper presented at the V Congreso Nacional de Psicología.
- ⁴³Collado, S., Rodríguez-Rey, R., & **Sorrel, M. A.** (2021, July). *El efecto del atractivo de los animales sobre los juicios morales ambientales de la población infantil*. Paper presented at the V Congreso Nacional de Psicología. Virtual
- ⁴²**Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2020, September). *Cognitive diagnostic computerized adaptive testing in R using the cdcater package*. Paper presented at the Virtual Phase of the 9th European Congress of Methodology (EAM 2020). Available at https://adeit-estaticos.econgres.es/20_EAM/Oral/46640_Sorell.pdf.
- ⁴¹Nájera, P., **Sorrel, M. A.**, de la Torre, J., & Abad, F. J. (August, 2020). A cutoff-free method for Q-matrix validation. Paper presented at the Virtual Phase of the 9th European Congress of Methodology (EAM 2020). Available at https://adeit-estaticos.econgres.es/20_EAM/Oral/46805_Najera.pdf.
- ⁴⁰Kreitchmann, R. S., Martínez-Huertas, J. A., Moreno, J. D., Nájera, P., Sanz, S., & **Sorrel, M. A.** (2020, September). *FoCo: A Shiny App for Formative Assessment and Self-Evaluation of Competencies*. Poster presented at the Virtual Phase of the 9th European Congress of Methodology (EAM 2020). Available at https://adeit-estaticos.econgres.es/20_EAM/Posters/47243_RodrigoSchames.pdf.
- ³⁹Collado, S., Fidalgo, C., Senis, J., Rodríguez-Rey, R., & **Sorrel, M. A.** (2020, March). *Improving students' self-efficacy, anxiety levels and motivation towards their master thesis via edpuzzle and facebook*. Paper presented at the 14th International Technology, Education, and Development Conference, Valencia, Spain.
- ³⁸**Sorrel, M. A.**, García, L. F., Aluja, A., Rolland, J. P., Rossier, J., Roskam, I., & Abad, F. J. *Estructura factorial y diferencias interculturales en el Inventario de Personalidad para el DMS-5*. (2019, September). Paper presented at the VIII Jornada de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales, Lleida, Spain.
- ³⁷**Sorrel, M. A.**, Nájera, P., & Abad, F. J. (2019, July). *An optimal implementation of the GDI Q-matrix validation method*. Paper presented at the International Meeting of the Psychometric Society, Santiago, Chile.
- ³⁶Abad, F. J., Garrido, L. E., Nieto, M. D., **Sorrel, M. A.**, & García-Garzón, E. (2019, July). *Una comparación del efecto del sesgo de respuesta en formato Likert y de respuesta extendida*. Paper presented at the National Meeting of the Spanish Association of Methodology, Madrid, Spain.
- ³⁵Nájera, P., **Sorrel, M. A.**, de la Torre, J. & Abad, F. J. (2019, July). *Mejoras en la validación empírica de la matriz-Q*. Paper presented at the National Meeting of the Spanish Association of Methodology, Madrid, Spain.
- ³⁴ Kreitchmann, R. S., Nájera, P., Sanz, S., & **Sorrel, M. A.** (2019, July). *Estimación completamente Bayesiana para contextos con falseamiento*. Paper presented at the National Meeting of the Spanish Association of Methodology, Madrid, Spain.
- ³³Kreitchmann, R. S., Nájera, P., Sanz, S., & **Sorrel, M. A.** (2019, July). *¿Eres un buen juez? Considerando la discriminación y severidad de expertos en la validación de contenido*. Poster presented at the National Meeting of the Spanish Association of Methodology, Madrid, Spain.
- ³²**Sorrel, M. A.**, & Abad, F. J. (2019, July). *cdcater: A R package for cognitive diagnostic computerized adaptive testing*. Paper presented at the National Meeting of the Spanish Association of Methodology, Madrid, Spain.
- ³¹Fidalgo, C., Senis, J., Collado, S., López-Crespo, Ginesa, Martín-Albo, J., **Sorrel, M.A.**, & Rodríguez, R. (2019, March). *Flipped classroom: A method to improve writing academic skills in graduate and post-graduate students*. Paper presented at the 13th annual International Technology, Education and Development Conference, Valencia, Spain.
- ³⁰Senis, J., Collado, S., López-Crespo, Fidalgo, C., **Sorrel, M.A.**, & Rodríguez, R. (2019, March). *Development of a self-efficacy scale for writin and defending academic texts*. Poster presented at the 13th annual International Technology, Education and Development Conference, Valencia, Spain.

- ²⁹**Sorrel, M. A.**, Barrada, J. R., & de la Torre. (July, 2018). *Exchanging item selection rules from cognitive diagnosis modeling to traditional item response theory*. Paper presented at the VIII European Congress of Methodology, Jena, Germany.
- ²⁸Yigit, H. D., **Sorrel, M. A.**, Barrada, J. R., & de la Torre, J. (2018, April). *A computerized adaptive testing exposure method for cognitively-based multiple-choice assessment*. Paper presented at the annual meeting of the National Council on Measurement in Education, NYC, NY.
- ²⁷**Sorrel, M. A.**, Abad, F. J., & Olea, J. (2017, July). *Implications of model comparison on cognitive diagnosis computerized adaptive testing*. Paper presented at the International Meeting of the Psychometric Society, Zurich, Switzerland.
- ²⁶de la Torre, J., & **Sorrel, M. A.** (2017, July). *Attribute classification accuracy improvement: Monotonicity constraints on the G-DINA model*. Paper presented at the International Meeting of the Psychometric Society, Zurich, Switzerland.
- ²⁵Sun, Y., Santos, K. S., **Sorrel, M. A.**, & de la Torre, J. (2017, July). *Identifying poor-fitting items using limited-information statistics for CDM*. Paper presented at the International Meeting of the Psychometric Society, Zurich, Switzerland.
- ²⁴**Sorrel, M.A.**, Barrada, J.R., Abad, F.J., & Olea, J. (2017, July). *Item selection methods comparison for cognitive diagnosis computerized adaptive testing*. Paper presented at the National Meeting of the Spanish Association of Methodology, Barcelona, Spain.
- ²³**Sorrel, M.A.**, Abad, F.J., & Olea, J. (2017, July). *Item pool calibration for cognitive diagnosis computerized adaptive testing: Making the most of what we have*. Paper presented at the National Meeting of the Spanish Association of Methodology, Barcelona, Spain.
- ²²Collado, S., Evans, G. W., & **Sorrel, M. A.** (2017, June). *Social context as determinant of pro-environmental behavior: differences according to age and gender*. Paper presented at the XIV Congreso de Psicología Ambiental-PSICAMB. Espacios y comportamiento humano: de lo local a lo global, Évora, Portugal.
- ²¹Collado, S., Staats, S., & **Sorrel, M. A.** (2017, June). *Effects of familiarity, obligations, security and parental supervision in children's perceived restorativeness*. Paper presented at the XIV Congreso de Psicología Ambiental-PSICAMB. Espacios y comportamiento humano: de lo local a lo global, Évora, Portugal.
- ²⁰**Sorrel, M. A.**, de la Torre, J., Abad, F. J., & Olea, J. (2017, April). *Two-step approximations for model comparison in cognitive diagnosis modeling*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- ¹⁹**Sorrel, M. A.**, Yigit, H. D., Kaplan, M. (2017, April). *CD-CAT implementation of the proportional reasoning assessment*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- ¹⁸Yigit, H. D., **Sorrel, M. A.**, & de la Torre, J. (2017, April). *Multiple-choice cognitive diagnosis model with computerized adaptive testing*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- ¹⁷Aguado, V., **Sorrel, M. A.**, Corral, S., Merino, L., & Martínez-Pampliega, A. (2016, November). *Adaptación española en población adolescente de la escala Level of expressed emotion*. Poster presented at the II International Congress of Clinical and Health Psychology on Children and Adolescents, Barcelona, Spain.
- ¹⁶Collado, S., Staats, H., & **Sorrel, M. A.** (2016, October). *Estudio de las transacciones persona-ambiente en la restauración psicológica infantil*. Paper presented at the II International Congress in Social Psychology, Elche, Spain.
- ¹⁵**Sorrel, M. A.**, de la Torre, J., Abad, F. J., & Olea, J. (2016, July). *Two-step likelihood ratio test for model comparison in cognitive diagnosis models*. Paper presented at the VII European Congress of Methodology, Mallorca, Spain.
- ¹⁴Yigit, H. D., **Sorrel, M. A.**, & de la Torre, J. (2016, July). *Computerized adaptive testing for cognitively based multiple-choice data*. Paper presented at the VII European Congress of Methodology, Mallorca, Spain.

- ¹³Collado, S., Evans, G.W., Corraliza, J.A., & **Sorrel, M. A.** (2016, July). *The role of age on young children's pro-ecological behaviours: an exploratory analysis*. Paper presented at the 31st International Congress in Psychology, Yokohama, Japan.
- ¹²Collado, S., Staats, H., & **Sorrel, M. A.** (2016, July). *Effects of children's experiences of nature in agricultural areas on reported psychological restoration*. Paper presented at the 31st International Congress in Psychology, Yokohama, Japan.
- ¹¹Abad, F. J., Nieto, M. D., Garrido, L. E., Ponsoda, V., & **Sorrel, M. A.** (2016, July). *Assessment of Horn's parallel analysis with missing data*. Paper presented at the International Meeting of the Psychometric Society, Asheville, NC.
- ¹⁰**Sorrel, M. A.**, Olea, J., Abad, F. J., de la Torre, J., Aguado, D., & Lievens, F. (2016, June). *Validez y fiabilidad de las puntuaciones en test de juicio situacional: un nuevo enfoque basado en modelos de diagnóstico cognitivo*. Poster presented at the VIII Seminario de la Cátedra de Modelos y Aplicaciones Psicométricos, Madrid, Spain.
- ⁹**Sorrel, M. A.**, Olea, J., Abad, F. J., de la Torre, J., Barrada, J. R., Aguado, D., & Lievens, F. (2016, April). *Assessing students' competencies through cognitive diagnosis models: validity and reliability evidences*. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
- ⁸Collado, S., Staats, H., **Sorrel, M. A.**, & Corraliza, J.A. (2015, August). *The role of type of daily interaction with nature on children's perceived restorativeness*. Paper presented at the 11th Biennial Conference on Environmental Psychology, Groningen, Netherlands.
- ⁷Hernández-Camacho, A., **Sorrel, M. A.**, Aguado, D. (2015, July). *Análisis de la dimensionalidad y del efecto de la discapacidad social en el Big Five Cuestionario de Personalidad mediante Full Information Item Factor Analysis*. Paper presented at the XIV Congreso de Metodología de las Ciencias Sociales y de la Salud, Mallorca, Spain.
- ⁶**Sorrel, M. A.**, Olea, J., Abad, F. J., Aguado, D., & Lievens, F. (2015, July). *Validez y fiabilidad de las puntuaciones en test de juicio situacional: una nueva aproximación a través de los modelos de diagnóstico cognitivo*. Paper presented at the XIV Congreso de Metodología de las Ciencias Sociales y de la Salud, Mallorca, Spain.
- ⁵**Sorrel, M. A.**, Olea, J., Abad, F. J., Aguado, D., & García, P. E. (2015, June). *eCompetencias: un Test de Juicio Situacional para medir competencias laborales basado en Modelos de Diagnóstico Cognitivo*. Poster presented at the VII Seminario de la Cátedra de Modelos y Aplicaciones Psicométricos, Madrid, Spain.
- ⁴Collado, S. Staats, H., **Sorrel, M. A.**, & Corraliza, J. A. (2015, June). *Efecto del tipo de interacción diaria con la naturaleza en la restauración psicológica infantil*. Paper presented at the XIII Congreso Internacional de Psicología Ambiental, Granada, Spain.
- ³**Sorrel, M. A.**, Abad, F. J., Olea, J., & Barrada, J. R. (2015, April). *Item Fit Evaluation in Cognitive Diagnosis Modeling*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Chicago, IL.
- ²**Sorrel, M. A.**, Abad, F. J., Olea, J., Aguado, D., & García, P. E. (2014, July). *Construct validity and reliability assessment of Situational Judgment Tests: A new approach through Cognitive Diagnosis Models*. Poster presented at the VI Seminario de la Cátedra de Modelos y Aplicaciones Psicométricos, Madrid, Spain.
- ¹**Sorrel, M. A.**, Abad, F. J., Ponsoda, V., Olea, J., Riesco, J. F., & Vidania, M. L. (2013, June). *¿Cómo puntuar las diferentes opciones en un ítem de un test situacional?*. Poster presented at the V Seminario de la Cátedra de Modelos y Aplicaciones Psicométricos, Madrid, Spain.

◇ Invited Presentations, Short Courses, & Workshops

- ²⁹**Sorrel, M. A.**, & Nájera, P. (2022, julio). R Applied To Personality Research. 4-hour workshop at the European Association of Personality Psychology Congress celebrated in Universidad Europea de Madrid, Madrid, Spain.

- ²⁸**Sorrel, M. A.** (2022, julio). Proporcionando feedback diagnóstico a estudiantes universitarios: Una aplicación a la asignatura de Psicometría. Paper presented at the VIII Semana de la Innovación Docente UAM, Madrid, España.
- ²⁷Next-Generation Cognitive Diagnosis for Small Educational Testing Settings: Innovations and Implementation (April 9-10, 2020; 8 hours). Session organizer: Chia-Yi Chiu. Presenters: Hans Friedrich Kohn, Miguel A. Sorrel, Pablo Nájera, Yu Wang, Jiayi Wang. Workshop at NCME. Workshop at the Annual Meeting of the National Council on Measurement in Education, San Diego.
- ²⁶Iglesias, D., **Sorrel, M. A.**, & Olmos, Ricardo (2022, abril). *Evaluación del contenido emocional de los tweets aplicando el modelo computacional del lenguaje LSA*. Paper presented at the III Edición de las Jornadas de Investigación de la Facultad de Psicología de la Universidad Autónoma de Madrid, Madrid, España.
- ²⁵**Sorrel, M. A.** (2022, abril). *VALORACIÓN DEL PROGRAMA VIVIR CON VITALIDAD@-VcV™: resultados recientes*. Round table at III Edición de las Jornadas de Investigación de la Facultad de Psicología de la Universidad Autónoma de Madrid, Madrid, España.
- ²⁴**Sorrel, M. A.** (2022, abril). *Facilitando la evaluación diagnóstica mediante Psicometría moderna*. Paper presented at the III Edición de las Jornadas de Investigación de la Facultad de Psicología de la Universidad Autónoma de Madrid, Madrid, España.
- ²³**Sorrel, M. A.**, & Nájera, P. (2021, marzo). *Introducción a las pruebas adaptativas informatizadas basadas en modelos de diagnóstico cognitivo no paramétrico y su implementación en cdcatsR*. 2-hour virtual workshop at Computational Psychometrics Lab of the Universidad Nacional Autónoma de México.
- ²¹**Sorrel, M. A.** (2021, January). *Development of a computerized application for formative assessment and self-assessment of competencies*. Invited presentation at the VI Teaching Innovation Week, held online and organized by the Universidad Autónoma de Madrid.
- ²⁰**Sorrel, M. A.** (2020, December). *Round Table of Mental health during PhD*. Participation in this round table during the III Young Researchers Meeting from CIBERONC held online on December 14-15, 2020 organized by CIBERONC.
- ¹⁹**Sorrel, M. A.** (2020, November). *Burnout en doctorandos españoles: Contexto, prevalencia y factores asociados*. Invited presentation at the III Congress of Young Researchers of the Canary Islands and I International Congress of Young People for Research held on November 26th and 27th, 2020 in virtual format organized at Universidad de la Laguna
- ¹⁸**Sorrel, M. A.** (2019, December). *Professional profiles in methodology*. Invited presentation at the I Conference on career opportunities in Psychology and Speech Therapy held at Facultat de Psicologia de la Universitat de Valencia, Valencia, Spain.
- ¹⁷**Sorrel, M. A.** (2019, July). *Further considerations on the GDI method for Q-matrix validation*. Invited presentation at the CDM 2019 theory meets application international workshop at Technical University of Dortmund, Dortmund, Germany.
- ¹⁶de la Torre, J., & **Sorrel, M. A.** (2019, July). *Cognitive diagnosis modeling: A general framework approach and its implementation in R*. Workshop at the CDM 2019 theory meets application international workshop at Technical University of Dortmund, Dortmund, Germany.
- ¹⁵**Sorrel, M. A.**, & Nieto, M. D. (2019, July). *Introduction to R for teaching*. Workshop at the XVI Congreso de Metodología de las Ciencias Sociales y de la Salud at Universidad Autónoma de Madrid, Madrid, Spain.
- ¹⁴**Sorrel, M. A.** (2019, March). *R workshop*. Workshop on the occasion of the seminar for the completion of the doctoral thesis organized by the Facultad de Filosofía y Letras de la Universidad Autónoma de Madrid, Spain.
- ¹³**Sorrel, M. A.** (2019, March). *SPSS workshop*. Workshop on the occasion of the seminar for the completion of the doctoral thesis organized by the Facultad de Filosofía y Letras de la Universidad Autónoma de Madrid, Spain.
- ¹²Abad, F.J., **Sorrel, M.A.**, García-Garzón, E., Nájera P., & García, C. (2019, April). *Developments in the specification of multidimensional models*. Poster presented at the research dissemination activity organized by the Facultad de Psicología de la Universidad Autónoma de Madrid. Madrid, Spain.
- ¹¹Abad, F.J., **Sorrel, M.A.**, Nieto, M.D., Kreitchmann, R., Sanz, S., & García, C. (2019, April). *Cutting-edge applications in personality measurement*. Poster presented at the research dissemination activity organized by the Faculty of Psychology of the Universidad Autónoma de Madrid. Madrid, Spain.
- ¹⁰**Sorrel, M. A.** (2018, December). *Model comparison as a way of improving cognitive diagnostic computerized adaptive testing*. Invited presentation at the Educational and Psychological Measurement Colloquium Series de la Faculty of Education de The University of Hong Kong, Hong Kong.

- ⁹de la Torre, J., & **Sorrel, M. A.** (2018, April). *Cognitive Diagnosis Modeling of Clinical Data: An Example and Step by Step Illustration*. Invited presentation at Universidad Autónoma de Madrid, Spain.
- ⁸**Sorrel, M. A.** (2018, March). *R workshop*. A short course at Universidad Autónoma de Madrid, Spain.
- ⁷**Sorrel, M. A.** (2018, March). *SPSS workshop*. A short course at Universidad Autónoma de Madrid, Spain.
- ⁶de la Torre, J., & **Sorrel, M. A.** (2017, June). *Cognitive Diagnosis Modeling: A General Framework Approach and Its Implementation in R*. A short course at Universidad Autónoma de Madrid, Spain.
- ⁵de la Torre, J., & **Sorrel, M. A.** (2017, May). *Cognitive Diagnosis Modeling: A General Framework Approach and Its Implementation in R*. A short course at Xi'an Jiaotong University, China.
- ⁴**Sorrel, M. A.** (2017, April). *Two-step likelihood ratio test for item-level model comparison in cognitive diagnosis models*. Invited presentation at the School of Statistics of the Philippines-Diliman Statistical Science Colloquium Series, Manila, Philippines.
- ³**Sorrel, M. A.** (2017, March). *An Introduction to the GDINA R Package*. Invited presentation at the Graduate Institute of Educational Measurement and Statistics Colloquium, Taichung, Taiwan.
- ²**Sorrel, M. A.** (2017, March). *An Introduction to the GDINA R Package*. Invited presentation at the Graduate School of Srinakharinwirot University, Bangkok, Thailand.
- ¹**Sorrel, M. A.** (2017, March). *An Introduction to the GDINA R Package*. Invited presentation at the College of Research Methodology and Cognitive Science, Burapha University, Bangsean, Thailand.

TEACHING EXPERIENCE

2019-2020 to 2022/2023 (Assistant Professor, Universidad Autónoma de Madrid):

- *Measurement, Methodology of Health and Behavioral Sciences*
- *Structural Equation Modeling, Methodology of Health and Behavioral Sciences*
- *Psychometrics, Degree in Psychology*
- *Master and Degree Final Research Project Supervisor*
- *Methodology and Data Analysis in Organizations*. Expert Degree in Organization and Human Resources
- *Introduction to R for statistical analysis* (November, 2019). Expert Degree in University Teaching.

2018-2019 (Temporary Associate Professor, Universidad Autónoma de Madrid):

- *Measurement, Methodology of Health and Behavioral Sciences*
- *Psychometrics, Degree in Psychology*
- *Degree Final Research Project Supervisor*
- *Introduction to R for statistical analysis* (May, 2019). Expert Degree in University Teaching
- *Introduction to R for statistical analysis* (March, 2019). Expert Degree in University Teaching

2017-2018 and 2016-2017 (Predoctoral Fellow, Universidad Autónoma de Madrid):

- *Measurement, Methodology of Health and Behavioral Sciences*
- *Psychometrics, Degree in Psychology*
- *Introduction to R for statistical analysis* (November, 2017). Expert Degree in University Teaching.
- *Introduction to SPSS* (June, 2017). Expert Degree in University Teaching
- *Introduction to R for statistical analysis* (June, 2017). Expert Degree in University Teaching
- *Introduction to SPSS* (February, 2017). Expert Degree in University Teaching

ACADEMIC ACTIVITIES

- ◇ Member of the Organizing Committee of the X Jornadas de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales (AIIDI) held at the Universidad Complutense de Madrid on December 2-3, 2021
- ◇ Associate Editor *Personality and Individual Differences* (<https://www.sciencedirect.com/journal/personality-and-individual-differences>) since January 2023
- ◇ Associate Editor *Psicológica* (<https://psicologicajournal.com/>) since May 2022

- ◇ Editorial Board *Psicología Conductual* (<https://www.behavioralpsycho.com/>) since January 2022
- ◇ Associate Editor *Terapia Psicológica* (<https://teps.cl/index.php/teps>). Evaluation and Psychometrics Section since May 2021
- ◇ Consulting Editor *The Spanish Journal of Psychology* (<https://www.cambridge.org/core/journals/spanish-journal-of-psychology/information/editorial-board>) since February 2021
- ◇ Reviewer Editor *Frontiers in Psychology* (<https://loop.frontiersin.org/people/1011207/overview>). Quantitative Psychology and Measurement since September 2020
- ◇ Representative of the Methodology area at Universidad Autónoma de Madrid in the Commission for the Recognition of Foreign Degrees and representative of the non-permanent professors in the Validation Commission since the 2019/2020 academic year
- ◇ Member of the Organizing Committee of the XVI Congress of Methodology of Social and Health Sciences held at the Universidad Autónoma de Madrid on July 8-10, 2019
- ◇ Collaboration in the organization of the Seminar of the Chair of Psychometric Models and Applications in the VI, VII, IX and X editions held on July 4, 2014, June 26, 2015, June 14, 2017 and June 25, 2018 at the Faculty of Psychology of the Universidad Autónoma de Madrid, respectively
- ◇ Organizer of the symposium *Professional Profiles in Methodology* held at the XVI Congress of Methodology of the Social and Behavioral Sciences, Madrid, Spain
- ◇ Ad Hoc Reviewer with more than 70 reviews verified (<https://publons.com/researcher/1633312/miguel-sorrel/>).

PROFESSIONAL EXPERIENCE

- ◇ Contract article 83 LOU. Principal and sole researcher in the project Consultancy on the calibration process of a bank of mathematical ability items for the company SMARTICK. The tasks performed were advisory and provision of bibliographic material and review of the technical reports generated by the company.(October 2022 to December 2022).
- ◇ Contract article 83 LOU. Principal and sole researcher in the project Consultancy on the calibration process of a bank of mathematical ability items for the company SMARTICK. The tasks performed were advisory and provision of bibliographic material and review of the technical reports generated by the company. (October 2021 to December 2021).
- ◇ Contract article 83 LOU. Principal and sole researcher in the project Development of a computerized ipsative adaptive test based on item response theory for the company FACTHUM TALENT MANAGEMENT, SL. The tasks performed were advice and provision of bibliographic material, review of item content, design of the pilot study, training of the item blocks, estimation of the multidimensional model and development of the adaptive algorithm in R. (July 2019 to January 2020). FUAM file number: 2019/0443. Program: 138900
- ◇ Practicum of the Bachelor's Degree in Psychology at TEA Ediciones, a leading national company in the area of development and publication of psychological tests (210 hours).

TESTS DEVELOPED

- ◇ Multiskilling – A Computerized forced-choiced adaptive test based on item response theory to measure six competencies: Transformational Drive, Partnership Building, Collaboration, Customer Orientation, Analytical Mindset and Diversity. Developed for FACTHUM TALEN MANAGEMENT, S. L.