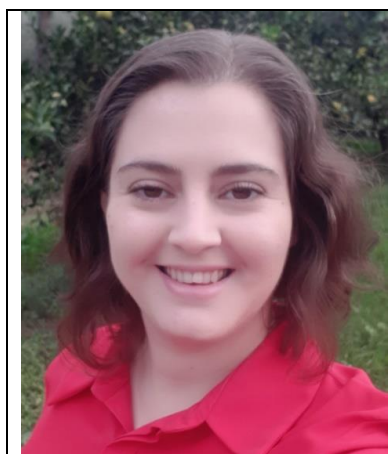


# Tahani Ramez Makki | Curriculum Vitae



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| <b>Education</b>              |   |
|-------------------------------|---|
| June 2007                     | <b>Official High School of Maghdouché</b><br>Baccalaureate, average 78.57/100   |
| September 2007-July 2010      | <b>Lebanese University (LU)</b><br>Bachelor of Physics, average 75.74/100   |
| September 2010-July 2011      | <b>Lebanese University (LU)</b><br>Master M1 in Fundamental Physics,<br>average: 80.86/100  |
| September 2011-July 2012      | <b>Lebanese University (LU)</b><br>Master M2R in Fundamental Physics,<br>average: 75.55/100   |
| September 2013-September 2019 | <b>American University of Beirut (AUB)</b> <ul style="list-style-type: none"> <li>➤ <u>Doctor of Philosophy:</u> Ph.D. in Theoretical Physics.</li> <li>➤ <u>Thesis:</u> “New Analysis of the Primordial Nucleosynthesis in Light of the Lithium Problem”</li> <li>➤ <u>Supervisor:</u> Prof. Mounib El Eid, Physics Department, American University of Beirut, Lebanon.</li> </ul> |
| <b>Experience</b>             |   |
| September 2013-January 2018   | <b>American University of Beirut (AUB)</b> <ul style="list-style-type: none"> <li>➤ Teaching full courses: PHYS 103.</li> <li>➤ Teaching recitations: PHYS 210, PHYS 211.</li> <li>➤ Teaching labs: PHYS 205, PHYS 211.</li> </ul>  |
| September 2018-present        | Teaching at high schools (all levels).  |
| Current position              | <b>Ministry of Education and Higher Education</b><br>Position: High School Teacher.   |

|   |   |
|---|---|
| July 2017-June 2018   | Certificate of proficiency in physics from the Faculty of Pedagogy, Lebanese University.  |
| <b>Competences</b>  |   |
| Languages   | <ul style="list-style-type: none"> <li>➤ Arabic: Native.</li> <li>➤ English: Very good.</li> <li>➤ French: Very good.</li> </ul>  |
| Computer skills   | Online learning platforms; Microsoft Office; Linux; Latex; Matlab; C++ programming; GeoGebra; Mathematical tools; Search engines. |
| <b>International interactions</b>   |   |
| <i>Conferences</i>  |   |
| <ul style="list-style-type: none"> <li>➤ <b>Conference 1:</b> Frontiers in Theoretical and Applied Physics (FTAPS), American University of Sharjah (February 2017).</li> <li>➤ <b>Conference 2:</b> The Fourth Azarquiel School of Astronomy, Portopalo, Italy (June 2017).</li> <li>➤ <b>Conference 3:</b> Ninth European Summer School on experimental nuclear astrophysics, Santa Tecla, Catania, Italy (September 2017).</li> <li>➤ <b>Conference 4:</b> Carpathian Summer School of Physics, Sinai, Romania (July 2018).</li> <li>➤ <b>Conference 5:</b> Third ARAS School for Astrophysics, AUB, Beirut, Lebanon (November 2018).</li> <li>➤ <b>Conference 6:</b> Fifth Middle-East and Africa Regional IAU Meeting (The MEARIM V-2020), November 10-12, 2020.</li> <li>➤ <b>Conference 7:</b> International Day for Woman and Girls in Astronomy 2021, organized by the Arab Union for Astronomy and Space Sciences (AUASS) and the Arab Astronomical Societies, February 13, 2021.</li> </ul>   |   |
| <i>Publications</i>   |   |
| <ol style="list-style-type: none"> <li>1. “A critical analysis of the Big Bang Nucleosynthesis”, Tahani R. Makki, Mounib F. El Eid and Grant J. Mathews, <b>Modern Physics Letters A</b>, 34, 1950194 (2019).<br/><a href="https://doi.org/10.1142/S0217732319501943">https://doi.org/10.1142/S0217732319501943</a></li> <li>2. “Impact of neutrino properties and Dark Matter on the Primordial Lithium Production”, Tahani R. Makki, Mounib F. El Eid and Grant J. Mathews, <b>Int. J. Mod. Phys. E</b>, 28, No. 08, 1950065 (2019).<br/><a href="https://www.worldscientific.com/doi/abs/10.1142/S0218301319500654">https://www.worldscientific.com/doi/abs/10.1142/S0218301319500654</a></li> <li>3. “Cosmological Solutions to the Lithium Problem”, G. J. Mathews, A. Kedia1, N. Sasankan1, Motohiko Kusakabe, Y. Luo, T. Kajino, D. Yamzaki, T. Makki, and M. El Eid, <b>JPS Conf. Proc.</b> 31, 011033 (2020),<br/><a href="https://journals.jps.jp/doi/10.7566/JPSCP.31.011033">https://journals.jps.jp/doi/10.7566/JPSCP.31.011033</a></li> </ol> |   |

4. “Big Bang Nucleosynthesis (BBN) and Non-Standard Physics”, Tahani Makki and Mounib El Eid, EPJ Web of Conferences 184, 02009 (2018).  
<https://doi.org/10.1051/epjconf/201818402009>
5. “The Lithium Problem: New Insight in the Big Bang Nucleosynthesis (BBN) beyond the Standard Model”, T R Makki, M F El Eid, Journal of Physics: Conf. series 869 (2017) 012091).  
<https://iopscience.iop.org/article/10.1088/1742-6596/869/1/012091>
6. “What can Lithium tell us about the early universe?”, Tahani Makki, a short contribution to “The Fourth Azarquiel School on Astronomy: a Bridge between East and West”, (2017). <https://agenda.infn.it/event/12080/contributions/11972/>

#### **Ongoing research work**

A paper titled “Could the lithium problem be resolved without an increase of the deuterium abundance?” to be submitted soon for publication in a peer-reviewed journal.

#### **Awards**

September 2017-September 2019: CNRS-L /AUB Awards for Ph.D students.