NSF BIOGRAPHICAL SKETCH

NAME: Majdi, Marwa

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POSITION TITLE & INSTITUTION: Postdoctoral Research Fellow , University of North Dakota - Atmospheric Science Department

(a) PROFESSIONAL PREPARATION -(see PAPPG Chapter II.C.2.f.(a))

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Paris-East University	Paris	Environmental Quality	MESC	2015
Paris-East University	Paris	Atmospheric Sciences	PHD	2018

(b) APPOINTMENTS -(see PAPPG Chapter II.C.2.f.(b))

2020 - present Postdoctoral Research Fellow , University of North Dakota - Atmospheric Science Department, Grand Forks, ND

2019 - 2020 Research Assistant, University of North Dakota - Atmospheric Science Department, Grand Forks, ND

2017 - 2019 Lecturer , University of Paris-East , Champs-sur-Marne

2015 - 2018 Research Assistant, Ecole des Ponts ParisTech, Champs-sur-Marne

(c) PRODUCTS -(see PAPPG Chapter II.C.2.f.(c))

Products Most Closely Related to the Proposed Project

1. Chrit M, Majdi M. Using Objective Analysis for the Assimilation of Satellite-Derived Aerosol Products to Improve PM2.5 Predictions over Europe. Atmosphere. 2022; 13:763. DOI: 10.3390/atmos13050763,2022
2. Majdi M, Sartelet K, Kim Y. Impact of the mixing state on the aerosol optical properties during severe wildfires over the Euro-Mediterranean region. Atmospheric Environment. 2020. DOI: 10.1016/j.atmosenv.2019.117042
3. Majdi M, Sartelet K, Lanzafame G, Couvidat F, Kim Y, Chrit M, Turquety S. Precursors and formation of secondary organic aerosols from wildfires in the Euro- Mediterranean region. Atmospheric Chemistry and Physics. 2019. DOI: 10.5194/acp-19-5543-2019
4. Majdi M, Turquety S, Sartelet K, Kim Y. Impact of wildfires on particulate matter in the Euro-Mediterranean in 2007: Sensitivity to the parameterization of emission in air quality models. Atmospheric chemistry and physics. 2019. DOI: 10.5194/acp-19-785-2019
5. Chrit M, Majdi M, Delene D, Askelson M. AeroVis: A Software System for Operational Visibility Nowcasting to Support Unmanned Aircraft System (UAS) Operations. Artificial Intelligence for the Earth Systems. Forthcoming.

Other Significant Products, Whether or Not Related to the Proposed Project

1. Chrit M, Sartelet K, Sciare J, Majdi M, Nicholas J, Petit , Dulac F. Modeling organic aerosol concentrations and properties during winter 2014 in the northwestern Mediterranean region. Atmospheric Chemistry and Physics. 2018. DOI: 10.5194/acp-18-18079-2018
2. Chrit M, Sartelet K, Sciare J, Majdi M, Nicholas J, Petit , Dulac F. Modeling organic aerosol

concentrations and properties during winter 2014 in the northwestern Mediterranean region. Atmospheric Chemistry and Physics. 2018. DOI: 10.5194/acp-18-18079-2018

(d) SYNERGISTIC ACTIVITIES -(see PAPPG Chapter II.C.2.f.(d))

1. • Collaboration in several research projects: CHARMEX airborne campaign (2015), (CAV system project (2021), WMI fog research (2021-2022), STTR/Air Force FCCS (2021), ASSURE-A51 (2021-2022), NASA EPSCoR (2022), NASA IMPACTS (2022), NDARB (2022).
2. Reviewer in several journals: Atmospheric Chemistry and Physics (2018 – Present), Atmospheric Environment (2019-Present), Meteorological Application (2021), Earth System Science Data (2021), MDPI-Remote Sensing (2022), MDPI- Public Health (2022), MDPI-International Journal of Environmental Research (2022).
3. Presentation at National and International Conferences: IAC, AGU, EGU, NOAA workshop. Member of the American Geophysical Union, the European Geophysical Union, the American Meteorological Society.
4. Mentoring undergraduate students in several research projects. Member of the graduate committee of Michael Willette.