

SYED AZHARUDDIN

DATE OF BIRTH: 10.10.1990

NATIONALITY: INDIAN

E-MAIL: azhar0606@gmail.com
syed.azharuddin.c4@f.mail.nagoya-u.ac.jp

PHONE: +91-9557812856; +81-70-1230-3053

GOOGLE SCHOLAR: [SYED AZHAUDDIN](#)

PERSONAL WEBPAGE: <https://climatesyed.weebly.com/>

PRESENT ADDRESS: Graduate School of Environmental Studies, Nagoya University, Nagoya, 464-8601 Japan



ACADEMIC SKILLS

Palaeontology, Climate change and sustainability, Geochemistry, Sedimentology, Oceanography, Biogeochemistry

RESEARCH OBJECTIVES

Study of climate and ocean using microfossils and geochemical proxies in the marine, speleothem, and glacial archives.

PRESENT AFFILIATION

Working as a **Postdoctoral Researcher** at the Graduate School of Environmental Studies, Nagoya University, Nagoya, Japan (**QS Global Ranking #118**) (September 2022 – Present)

PAST POSITIONS

- **Postdoctoral Fellow** at Laboratory of Ice Core and Paleoclimate (LICP), School of Earth and Environmental Sciences, Seoul National University, Seoul, South Korea (**QS Global Ranking #29**) (April 2019 – April 2022).
- **Council of Scientific and Industrial Research Senior Research Fellow (CSIR-SRF)** at Birbal Sahni Institute of Palaeosciences, Lucknow, UP, India (April 2018 - January 2019).
- Department of Science and Technology **Junior Research Fellow** at Birbal Sahni Institute of Palaeosciences, Lucknow, India (January 2014 to November 2016)

AWARDS AND GRANTS

- **Postdoctoral Fellowship** under Korean Research Foundation (KRF) sponsored project at Laboratory of Ice Core and Paleoclimate (LICP), School of Earth and Environmental Sciences, Seoul National University, Seoul, Korea (April 2019 to April 2022).
- **Berkner Travel Fellowship (Top 12 students/early career scientists)** received full grant for attending American Geophysical Union (AGU) Fall Meeting 2018 at Washington DC during 10-14 December 2018.
- **Council of Scientific and Industrial Research, India (CSIR) Senior Research Fellowship** at Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow, India from May 2018 to January 2019.
- **VolkswagenStiftung** grant to attend the summer school/workshop entitled “What can we learn from the past into the future? Stable isotopes in ancient and contemporary environments” held at the University of Konstanz, Konstanz, Germany during 15-19April, 2018.
- **PAGES-OSU travel grant** to attend PAGES OC3 second workshop on “Ocean Circulation and Carbon Cycling During Last Deglaciation: Regional Synthesis of Carbon Isotope Data” held at Oregon State University (OSU), Corvallis, OR, US during 27-29 June 2017.
- **PAGES-ICTP travel grant** to attend CLIVAR-ICTP workshop on “Decadal Climate Variability and Predictability” at The International Centre of Theoretical Physics, Trieste, Italy during 16 - 24 November 2015.
- DST, New Delhi Fastrack **Junior Research Fellowship** at BSIP from January 2014 to November 2016.

EDUCATION

Degree/Exam	Year of Passing	Board/ Institute/ University	Subject/Specialization
Doctor of Philosophy (PhD)	2019	Birbal Sahni Institute of Palaeosciences, Lucknow, India. Banaras Hindu University, Varanasi, India	Geology (Thesis title- Late Quaternary oceanographic and climatic reconstructions using foraminifera and sediment geochemical signatures from the northeastern Arabian Sea)

Master of Science (MSc.)	2013	Aligarh Muslim University, Aligarh, India	Applied Geology
Bachelor of Science (BSc. Hons.)	2011	Aligarh Muslim University, Aligarh, India	Geology (Mains) with Chemistry and Geography
AISSCE (Class 12 th)	2008	Central Board of Secondary Education	Physics, Chemistry, Biology, English, Geography
AISSE (Class 10 th)	2006	Central Board of Secondary Education	Mathematics, English, Hindi, Social Studies, Science

PUBLICATIONS

International Peer-reviewed Publications

- **Azharuddin, S.**, Dogar, M.M. (2016). Decadal Climate Variability and Predictability **Current Science** 110(8), 1397-1398.
- **Azharuddin, S.**, Govil, P.* , Singh, A.D., Mishra, R., Agrawal, S., Tiwari, A.K., Kumar, K. (2017). Monsoon-influenced variations in productivity and lithogenic flux along offshore Saurashtra, NE Arabian Sea during the Holocene and Younger Dryas: A multi-proxy approach. **Palaeogeography, Palaeoclimatology, Palaeoecology**, 483, 136-146.
- Dogar, M. M.*, Kucharski, F., **Azharuddin, S.** (2017) Study of Global and Regional Climatic Impact of ENSO magnitude using SPEEDY AGCM, **Journal of Earth System Science**, 126.
- Govil, P.* ,Mazumder, A., Ram, R, Singh, D.S., **Azharuddin, S.** (2018) Meltwater flux and climate change record of last 18.5 ka from Schirmacher Oasis, East Antarctica. **Polar Science** 18, 135-141.
- **Azharuddin, S.**, Govil, P.* , Singh, A.D., Mishra, R., Shekhar, M., (2019) Solar insolation driven periodicities in southwest monsoon and its impact on NE Arabian Sea paleoceanography. **Geoscience Frontiers** 10(6), 2251-2263.
- **Azharuddin, S.**, Govil, P.* , Singh, A.D., Mishra, R., Agrawal, S., (2022) Mid-Holocene intensification of the oxygen minimum zone in the northeastern Arabian Sea. **Journal of Asian Earth Sciences**, 227, 105094.
- Govil, P.* , Mazumder, A., Agrawal, S., **Azharuddin, S.**, Mishra, R., Khan, H., Kumar, B., Verma, D., (2022) Abrupt changes in the southwest monsoon during

Mid-Late Holocene in the western Bay of Bengal. **Journal of Asian Earth Sciences**, 227, 105100.

- **Azharuddin, S.**, Govil, P. *, Chalk, T. B., Shekhar, M., Foster, G. L., Mishra, R. (2022) Abrupt upwelling and CO₂ outgassing episodes in the North-eastern Arabian Sea since mid-Holocene. **Scientific Reports** 12(1).
- Ambokar, M, Panchang, M., Govil, P., **Azharuddin, S.** (2022) Implications of finding *Peraclis* spp. in the Holocene sediments of the northeastern Arabian Sea, **Marine Micropaleontology**, 177, 102182.
- **Azharuddin, S.**, Ahn, J.*, Brook, E., Ryu, Y., Salehnia, N. (2023) Millennial-scale changes in atmospheric nitrous oxide during the Holocene. **Earth and Space Science** (Accepted- In press)

Submitted/Under revision

- **Azharuddin, S.***, Uemura, R.*, Omine, K., Masaka, K., Asami, R., Shen, C. C., Lone, M. (2023) Tracing the mechanism of mid-Holocene multidecadal climate variability in the Northwest Pacific. **Nature Communications** (In-Review)

Conference papers

- **Azharuddin, S.**, Govil, P., Singh, A. D. and Mishra, R., Paleoceanographic study during the Holocene over off Saurashtra NE Arabian Sea. **XXV Indian Colloquium on Micropalaeontology and Stratigraphy** (2015) Aurangabad Maharashtra, India. Abstract Volume page no. 113.
- **Azharuddin, S.**, Govil, P., Singh, A. D. and Mishra, R., Productivity variation pattern in the NE Arabian Sea during the **3rd NECLIME Asian Meeting** (2016) BSIP, Lucknow. Abstract volume page no. 7.
- **Azharuddin, S.**, Govil, P., and Mishra, ., Holocene record of the monsoonal climate and productivity variations in the NE Arabian Sea. **National Conference on Quaternary Climate: Recent Findings and Future Challenges** (2016) National Institute of Oceanography, Goa, India. Abstract Volume Page No. 54.
- **Azharuddin, S.** and Govil, ., Holocene record of productivity collapse during cold periods from the NE Arabian Sea and their global teleconnection with north-Atlantic cold events, **National Seminar on Recent advances and challenges in geochemistry, Environmental and sedimentary geology** (2017) Aligarh Muslim University, Aligarh, India. Abstract volume pp. 22.
- **Azharuddin, S.** and Govil, P., Trends and episodes of southwest monsoon during the Holocene. National Conference on Climate Change and Natural Resource; Impacts and Sustainable Development in Indian Perspective (2018) Centre of Advance studies in Geology, University of Lucknow. Abstract Volume Page No. 6.

- **Azharuddin, S.** and Govil, P., Variation in depositional conditions due to oxygen minimum zone influence in the northeastern Arabian Sea. (2018) **AGU Fall Meeting 2018**, Washington DC, USA.
- **Azharuddin, S.,** and Ahn, J. A review of atmospheric nitrous oxide variation during the Holocene: Motivations for future studies (2019) The 74th Annual Meeting of the Geological Society of Korea At: Jeju Island. Conference proceeding abstract book page no. 62.
- **Azharuddin, S.,** Ahn, J., Yeoungjun Ryu and Ed Brook. A high-resolution record of atmospheric nitrous oxide concentration from the South Pole ice core during the mid- to late Holocene (2020) The 75th Annual Meeting of the Geological Society of Korea (online conference) October 2020.
- **Azharuddin, S.,** Ahn, J., Yeoungjun Ryu and Ed Brook. Climate related variations in atmospheric nitrous oxide concentration during the Mid to Late Holocene (2021). EGU General Assembly 2021 (Online Meeting).
- **Azharuddin, S.,** Ahn, J., Yeoungjun Ryu and Ed Brook. Climate-induced variations in atmospheric nitrous oxide during the Holocene (2021) The 76th Annual Meeting of the Geological Society of Korea , Jeju Island, S. Korea. October 2021.
- **Azharuddin, S.,** Ahn, J., Yeoungjun Ryu and Ed Brook. Millennial-scale changes in atmospheric nitrous oxide during the Holocene (2021) AGU Fall Meeting, New Orleans (online).
- **Azharuddin, S.,** Uemura, R., Asami, R., Shen, C. Multidecadal reconstruction of mid-Holocene climate of Western Pacific based on the stalagmite fluid inclusion isotopes (2023) Japan Geoscience Union Meeting 2023 (scheduled in May 2023)

OTHER ACADEMIC RESPONSIBILITIES

- Elected as an **Early Career Representative** for **International Union for Quaternary Research (INQUA) PALCOM** Commission (2023-2027 cycle).
- Reviewing articles for **Journal of Asian Earth Sciences** (Elsevier) and **Journal of Quaternary Science** (Wiley).
- Guest editor for a special volume entitled '**Carbon Cycling, Climate Change and Sustainability**' by **Sustainability** (an open-access journal by MDPI).

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