

# Noa Balaban – Curriculum Vitae

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## CURRICULUM VITAE

Name: Noa Balaban

Environmental Research Department

Nuclear Research Centre Negev

POB 9001, Beer-Sheva, 84190 Israel

### **Education:**

**2016-2017: Postdoc** - Zukerberg Institute for Water Research, Blaustein Institutes for Desert Research (BIDR), Ben-Gurion University.

**2012-2016: PhD** Thesis- Zukerberg Institute for Water Research, Blaustein Institutes for Desert Research (BIDR), Ben-Gurion University. Advisors: Prof. Zeev Ronen, Dr Anat Bernstein, Dr Faina Gelman.

**Title:** In situ degradation of brominated organic contaminants, DBNPG and TBNPA in groundwater. The work included international collaboration with different science labs; a multidisciplinary approach in the areas of environmental microbiology, geo-hydrology and stable isotopes; "wet" laboratory experience, field research, and the use of state-of-art isotopic analysis analytical methods (IRMS, GC-MC-ICPMS); presentation in international conferences and the publication of scientific articles in peer reviewed journals.

**2004-2007: M.Sc** Thesis – Department of Geology and Environmental Studies Ben-Gurion University. Advisors: Prof Jonathan B. Laronne, Prof. Shimon Feinstein.

**Title:** Adsorbed elements and svoc compounds in flood water and channel banks of Wadi Secher, draining the industrial Hovav Complex, Northern Negev Desert, Israel. The work included extensive field and lab work, including the operation and management of two automatic hydrometric stations, and presentation in international conferences and the publication of scientific articles in peer reviewed journals.

**2001-2004: B.Sc** – Department of Geology and Environmental Studies Ben-Gurion University. Hydrology program.

### **Employment:**

**2017 – Present:** Hydrologist and Environmental researcher, NRCN, Israel

- Lead researcher in the following areas:
  - Surface erosion in the area of the near surface waste disposal site.

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- Coordinator of joint research with the NNSA (USA) and geological institute of Israel, in the field of Geological Disposal.
- Active researcher in the following areas:
  - Siting process for geological disposal;
  - Geochemical interactions of radionuclides with the local environment – implication of column experiments.

**2011-2012:** Independent environmental consultant.

**2008-2011:** Environmental consultant, Geo-Teva Environmental consultants. A wide range of topics were dealt with: geomorphology, surface hydrology, ecology, landscape and ecological rehabilitations of different projects such as solar energy sites, and the international gas pipe project. Work included environmental surveys and more in-depth research work in the Dead Sea area, such as the "Wadi Zeelim Project" which checked the effect of the Dead Sea retreat on the geomorphic-ecological system of the Zeelim sedimental fan.

**2007-2008:** Implementation of polluted water and soil surveys, Eco-Tec Environmental Services.

**2004-2006:** Teaching assistant in four courses (frontal and field tours) in the Geology and Environmental studies department, Ben-Gurion University.

### **Awards and scholarships:**

1. Short postdoctoral Kreitman fellowship, 2016-2017.
2. Israeli Water Authority scholarship, 2015-2016.
3. Ben-Gurion University of the Negev – Green Campus-Ormat prize for thesis excellence in the area of environment and sustainability, 2016.
4. Israeli Ministry of Science, Technology and Space – Active participant in international conferences for Doctoral Students 2016 scholarship.
5. 22<sup>nd</sup> ISEB Symposium 2015 – Excellent Oral presentation, Piran, Slovenia, 2015.
6. Israeli Ministry of Science, Technology and Space – Active participant in international conferences for Doctoral Students 2015 scholarship.
7. Rieger Foundation – Rieger- JNF Fellow in Environmental Studies 2013-2014.

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8. 2013 KAMGI Conference – Excellent oral presentation, Dead Sea, Israel, 2013.

### **Grants:**

**2022 -2026:** PAZY Foundation: Long term landscape erosion and evolution in the vicinity of a radioactive waste disposal site. PI's: NRCN - Balaban, N.; Ben-Gurion University - Laronne, J.B.

**2017-2020:** IAEC-NNSA grant in the subject: Mechanisms of subsurface flow and radionuclide transport. With: NRCN- Balaban, N.; Geological institute - Rosensweig R. and Los Alamos National laboratory - Bussod G., Stauffer P.

### **Research Students:**

M.Sc

**2020-present:** Co-supervision of an M.Sc thesis by Ms. Sarah Adar at the department of Geology and the Environment at BGU. Project title: Landscape Erosion in Yamin Plain, Negev, Israel.

**2021-present:** Co-supervision of an M.Sc thesis by Mr. Ilay Hanegbi at the department of Geology and the Environment at BGU. Project title: Rilling and Gullying in Response to Erosion of Biogenic Crusts, Yamin Plain, Negev, Israel.

### **Membership in professional societies:**

Israel Geological Society, EYAL – Israeli Water Association.

### **Professional courses:**

2017: Concentrated course - Hydrus 1-3D, Blaustein Institutes for Desert Research (BIDR), Ben-Gurion University.