

DAVID K. WEINSTEIN, Ph.D.

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RESEARCH INTERESTS

Coral reef and coastal sedimentology, mesophotic reef geology, coral reef structural sustainability, artificial reefs, habitat restoration, carbonate shelf accretion, bioerosion, carbonate budgets, general sedimentology and stratigraphy, reef and coastal geomorphology and spatial analysis, sea-level change, coastal erosion modeling and assessment, ESA species, coastal development, natural shorelines

EDUCATION

University of Miami, Rosenstiel School of Marine and Atmospheric Science, Miami, FL Aug. 2008 – Dec. 2014
Ph.D., Marine Geology and Geophysics, James Klaus (Adviser), GPA 3.8

- Dissertation: *Deep reef bioerosion and deposition: Sedimentology of mesophotic coral reefs in the U.S. Virgin Islands*
- UM Fellowship (Graduate award)
- Marine Science Graduate Student Organization (MSGSO) – Division Representative

University of Maryland, College Park, MD June 2003 – Aug. 2007
B.S., Geology, Alan Jay Kaufman (Adviser), UMD major GPA 4.0, overall GPA 3.8

- Thesis: *Taphonomy of the Late Pleistocene Key Largo Limestone: A comparison of modern and ancient coral reef ecosystems*
Awarded the J. R. Dorfman Prize for Outstanding Undergraduate Research
- Senior Marshal for 2007 Winter commencement
- Boise State University Geology field camp in Sardinia, Italy (summer 2007)
- University of Maryland Geology Club – President and Co-founder

University of Rochester, Rochester, NY Sept. 2000 – May 2002
Institute of Optics, GPA 3.9

- Rush Rhees Scholar, Maryland Unique Majors Scholarship

PROFESSIONAL EXPERIENCE

United States Army Corps of Engineers, Biologist, Jacksonville, FL March 2022 – March 2024
Planning Division, Environmental Branch, Coastal Section

- Prepared and interpreted National Environmental Policy Act (NEPA) documents with associated ESA consultations and other coordination, and monitored project status.
- Reviewed studies/background data to prepare permit applications for Civil Works projects.
- Wrote mitigation plans, initiated environmental monitoring, prepared and oversaw contacts, and modified project scopes to ensure planning studies, contract plans and specifications, and project operations considered and adhered to NEPA and other environmental laws while minimizing environmental impacts for navigation, coastal, and restoration projects.
- Assessed human impacts on resources, habitats, and protected species, and provided solutions through NEPA process.
- Served as the primary coral reef expert for the Port Everglades Deepening Project (would constitute the largest coral mitigation effort authorized in the United States). Conducted complex spatial and ecological analyses of coral mitigation scenarios, used mitigation functional assessments, planned rubble removal and artificial reef mitigation components, edited NEPA and permit documents, quantified cost and risk implications, analyzed ESA qualities and needs, met with Federal and State regulator partnering agencies, and assisted with contract development/oversight and overall strategic planning.

- The Westmoreland Group, Senior Research Analyst, Arlington, VA** May 2021 – March 2022
 Contract for the **United States Department of the Navy Office of Naval Research (ONR)** 1
- Granted *Secret Security Clearance*.
 - Provided program management support through developing program plans, strategies, metrics to identify improvements and budgets, and capability and technology road maps.
 - Prepared and drafted analyses, presentations, reports, and marketing materials.
 - Reviewed and ranked grant proposals.
 - Oversaw internal and external programmatic and financial matter communications.
 - Identified and reviewed emerging requirements for project transitions.
- Ocean Rescue Alliance, Director of Strategy and Lead Scientist, Ft. Lauderdale, FL (virtual)** March 2021 – Feb. 2023
Weinstein Reefworks, Independent Consultant, Rockville, MD (virtual) Dec. 2021 – Feb. 2023
- Delivered strategic assistance with business development, scientific research, marketing, outreach, press releases, intern hiring and management, and grant-writing for artificial reefs and art installations designed to enhance biological productivity and attenuate wave energy, ultimately protecting coastal areas, increasing biodiversity, and providing tourism revenue.
 - Produced formal agreements with major partners (Northrop Grumman, USF, Duke, Cornell, and NPOs) while co-writing a grant proposal worth \$10 million.
 - Initiated a new market-driven tourism campaign.
 - Facilitated news story with the Sun Sentinel and others. Hired and managed multiple successful interns.
- The Downs Law Group, Independent Consultant, Coconut Grove, FL (virtual)** Nov. 2020 – Dec. 2020
- Completed marine geology consulting review for investigation to litigate cases regarding exposure to oil and associated toxins from the 2010 BP Deepwater Horizons oil spill.
 - Conducted literature reviews, examining sample results and oceanographic models. Provided recommendations for assessing toxicity and oil deposition with positive [results](#).
- CollabraLink Technologies, Inc., Program Analyst, McLean, VA** Dec. 2019 – June 2020
 Contracted for the **National Oceanic and Atmospheric Administration (NOAA)**
Office of Oceanic and Atmospheric Research (OAR)
- Designed, implemented, managed, and reported on mechanisms for collecting, tracking, and analyzing NOAA's Research and Development (R&D) and transition project portfolio while evaluating the use of R&D to accomplish NOAA's missions.
 - Provided logistic support and developed reports, presentations, briefings, operating procedures, and publications related to R&D and transition administration issues while collaborating with OAR leadership.
 - Served as a key administrator for the NOAA Research and Development Database ([NRDD](#)), conducting and managing NRDD queries for NOAA staff and leadership, and providing related technical analysis and presentations using R and excel.
 - Led NRDD user meetings (agenda, scheduling, and minutes) and the Line Office Transition Managers Committee (LOTMC) planning of a NOAA-wide workshop focusing on Readiness Level (RL) clarification critical for achieving NOAA's primary goal.
 - Completed three standard operating procedures, reviewed numerous official documents, and produced over 10 R&D reports for leadership. Received commendations for coordinating NOAA workshop and authoring a corresponding [report summary](#) including analysis of results and suggestions for future actions.
- Interuniversity Institute, Zuckerman Post-doctoral Scholar, Eilat, Israel** Sept. 2017 – Sept. 2019
- Supervisor: Dr. Adi Torfstein.
 - Examined origin and geological history of Gulf of Aqaba (GOA) mesophotic reef terraces.
 - Interpreted GOA bathymetry with ArcGIS to produce mesophotic geomorphology maps.
 - Collected (SCUBA and drop cameras), analyzed, and interpreted benthic cover and compared with GOA bathymetry and predictor variables to identify new mesophotic reefs

and determine drives of mesophotic benthic cover and relationships with geomorphology.

- Conducted benthic surveys and collected (technical diving) coral rubble, coral, and sediment.
- Analyzed sediment (grain-size analysis), coral rubble (carbon dating, geochemistry, taxonomy) and coral (growth rate experiments with alizarin red and image analysis) to determine depositional history and accretion rates (age models) and identify past coral fauna transitions and environmental fluctuations associated with late Holocene mesophotic reefs.
- Authored [one](#) paper and published datasets (ecological and geospatial), with another in drafting stages for peer-reviewed scientific journals. Gave talks around the country and lectured for three Institute courses.

University of the Ryukyus, *JSPS Post-doctoral Fellow*, Okinawa, Japan

Mar. 2015 – Mar. 2016

- Supervisor: Dr. James Reimer, Molecular Invertebrate Systematics and Ecology Laboratory
- Analyzed shallow and mesophotic reef coral recovery after major typhoon damage.
- Designed and implemented new mesophotic reef sedimentology research program including coral growth rate analysis and secondary carbonate accretion.
- Conducted benthic surveys to identify the distribution of a newly discovered octocorallia.
- Mapped new mesophotic reefs and analyzed benthos and local fauna with VideoRay ROV.
- Published results, including ecosystem management recommendations, in peer-reviewed journals ([mesophotic](#), [octocoral](#)) with another study ongoing and preliminary results presented to the public as an invited guest at Okinawa Institute of Science and Technology. Created organizational Excel databases for future lab use.

Rosenstiel School of Marine and Atmospheric Science, *Research Assistant*, Miami, FL

June 2008 – Sept. 2008 &
May 2006 – Aug. 2006

- Conducted carbonate reef comparative sedimentology research for Dr. Robert Ginsburg.
- Used ArcGIS and nautical charts to identify and map spatial distribution of potential Caribbean mesophotic coral habitats and calculate potential areal coverage.
- Participated in Bahamas research cruise to study sub-marine hardground development.
- Conducted fieldwork in northern Dominican Republic, studying facies progressions of Plio-Pleistocene fossil reef terraces.
- Mapped out and analyzed the spatial distribution of sedimentary facies and laminations in previously collected Bahamian stromatolites (cyanobacteria-produced calcareous mounds).

Isotope Geochemistry Laboratory, *Laboratory Assistant*, College Park, MD

Oct. 2007 – June 2008 &
Jan. 2006 – Mar. 2006

- Prepared sedimentary rock samples for petrographic and isotopic analysis.
- Isolated carbonates and sulfides for isotopic analysis using continuous flow and dual inlet gas source mass spectrometric techniques.
- Conducted chemical extraction of sulfates and sulfides to prepare silver sulfide for fluorination and isotopic analysis for study of Archean mass-independent sulfur.

Maryland Geology Department, *Field Assistant*, Great Falls, MD & VA

Jan. 2006

- Measured joint, foliation, and mineral orientations of the Potomac River Mather Gorge.

Laboratory of Physical Science, *Research Assistant*, College Park, MD

Aug. 2003 – July 2004

- Created and analyzed polymer waveguides for optical circuitry with senior optics team.
- Experimented with single and array fiber alignments and optical packaging.
- Authored user manual and trained senior staff in use of auto-aligner machine.

TEACHING EXPERIENCE

Montgomery County Public Schools, *Substitute Teacher*, Rockville, MD

May 2021 – Sept. 2021
Nov. 2019 – Dec. 2019 &
Oct. 2016 – June 2017

- Taught and supervised high and middle school students in math and science courses.
- Conducted virtual classroom education during the COVID pandemic.
- Enforced administration policies and rules governing students.
- Discussed assigned duties with classroom teachers to coordinate instructional efforts.

University of Miami, *Teaching Assistant (TA) and Mentor*, Miami, FL Aug. 2008 – Dec. 2014

- Teaching Assistant (TA) for the following courses:
 - Evolution of the modern Earth's environment; Historical geology; Paleontology and stratigraphy; Natural disasters - Hollywood vs. reality.
- Taught laboratory sections and course lectures, held test preparation and office hours, graded coursework (projects, tests, lab reports, homework), and helped with field trips.
- Mentoring: 4 high school students, 10 undergraduates (2 senior theses).

Prep Tutors, *Tutor*, Washington, D.C. Sept. 2004 – June 2008

- Instructed high school students in math, SAT math techniques, and general study skills.

RESEARCH GRANT AWARDS AND FELLOWSHIPS

- *Zuckerman STEM Leadership Program* Postdoctoral Scholarship: \$50,000 per year (salary and research) - 2017
- *Interuniversity Institute for Marine Sciences*, Israel IUI Postdoctoral Fellowship: \$40,000 per year (declined) - 2017
- *Japan Society for the Promotion of Science (JSPS)* Postdoctoral Fellowship: ¥4,910,077 (salary and research) - 2015
- *Paleontology Society* Travel Grant (for GSA SE sectional meeting): \$425 - 2013
- *Rosenstiel School of Marine and Atmospheric Science* Graduate Career Development Fund: \$750 - 2013
- *Geological Society of America (GSA)* SE Section Student Travel Grant: \$300 - 2013
- *GCSSEPM* Ed Picou Fellowship Grant for Graduate Studies in Earth Science: \$1,000 - 2012
- *Rosenstiel School of Marine and Atmospheric Science* Graduate Student Fund (twice): \$2,000 (each) - 2012
- *Center for Latin American Studies (University of Miami)* Graduate Field Research Grant: \$1,000 - 2012
- *Sigma Xi* Grant in aid of research (GIAR): \$1,000 and \$800 - 2010 and 2011
- *Abess/Citizens Board (University of Miami)* Environmental travel grant: \$750 - 2011
- *National Science Foundation (NSF)* Graduate Research Fellowship: \$102,121 (3-year salary and research) - 2010
- *Exxon Mobil* Research Grant: \$5,000 - 2010
- *Geological Society of America (GSA)* Graduate Research Grant (Outstanding Mention Award): \$4,000 - 2010
- *American Underwater Arts and Sciences* Zale Parry Scholarship: \$2,500 - 2010
- *Southeastern Section of the Geological Society of America* Research Grant: \$625 - 2009
- *International Association of Sedimentologists* 1st Session Grant Scheme: €1,000 – 2009

PUBLICATIONS

Google Scholar: <https://scholar.google.co.il/citations?user=NXDG6-QAAAAJ&hl=en>

Researchgate: https://www.researchgate.net/profile/David_Weinstein2

* denotes equal authorship

Eyal, G.,* **Weinstein, D.K.**,* Hammerman, N. H., Shaked, Pandolfi, J. M., Torfstein, A., in prep, Faunal transitions and temporal accretion rates of mesophotic coral rubble fields.

Weinstein, D.K., Tamir, R., Kramer, N., Berenshtein, I., Eyal, G., Shaked, Y., Loya, Y., Torfstein, A., 2021, [Geomorphology categorization, identification of mesophotic reef habitats, and relationships with surface cover and terrace formation in the Gulf of Aqaba](#), *Geomorphology*, 379, 107548.

Weinstein, D., Newcomb, L., Matlock, G., Detlor, D., Madden, M., Tolman, H., Thur, S., Gonsalves, L., Wright, K., 2020, [NOAA Readiness Levels Workshop: Post-Workshop Report](#), NOAA Technical Memorandum, NOAA Line Office Transition Managers Committee-001.

Weinstein, D.K., Maher, B., Correa, A.M.C., 2019, [Bioerosion](#). In: Loya, Y., Puglise, K., Bridge, T. (eds). Mesophotic Coral Ecosystems. Coral Reefs of the World, vol 12. Springer, Cham, 829-847.

Sherman, C. E., Locker, S.D., Webster, J.M., **Weinstein, D.K.**, 2019, [Geology and geomorphology](#). In: Loya, Y., Puglise, K., Bridge, T. (eds). Mesophotic Coral Ecosystems. Coral Reefs of the World, vol 12. Springer, Cham, 849-878.

- Tuner, J.A., Andradi-Brown, D.A., Gori, A., Bongaerts, P., Burdett, H.L., Ferrier-Pagès, C., Voolstra, C.R., **Weinstein, D.K.**, Bridge, T. C. L., Costantini, F., Gress, E., Laverick, J., Loya, Y., Goodbody-Gringley, G., Rossi, S., Taylor, M.L., Viladrich, N., Voss, J. D., Williams, J., Woodall, L.C., Eyal, G., 2019, [Key questions for research and conservation of mesophotic coral ecosystems and temperate mesophotic ecosystems](#). In: Loya, Y., Puglise, K., Bridge, T. (eds). *Mesophotic Coral Ecosystems. Coral Reefs of the World*, vol 12. Springer, Cham, 989-1003.
- White, K.N., * **Weinstein, D.K.**, * Ohara, T., Denis, V., Montenegro, J., Reimer, J.D., 2017, [Shifting communities after typhoon damage on an upper mesophotic reef in Okinawa, Japan](#), *PeerJ*. 5:e3573; DOI 10.7717/peerj.3573.
- Weinstein, D.K.**, Sharifi, A., Klaus, J.S., Smith, T.B., Giri, S.J., Helmle, K.P., 2016, [Coral growth, bioerosion, and secondary accretion of living orbicellid corals from mesophotic reefs in the US Virgin Islands](#), *Marine Ecology Progress Series*, 559, 45–63.
- Miyazaki, Y., Alves, M.E., Huhnihiro, S., **Weinstein, D.K.**, Reimer, J.R., 2016, [Rarity of *Nanipora kamurai* \(Anthozoa: Octocorallia: Helioporacea\) at its type locality](#), *Marine Biodiversity*, 1-5.
- Smith, T.B., Ennis, R. S., Kadison, E., **Weinstein, D.K.**, Jossart, J., Gyory, J., Henderson, L., 2015, [The United States Virgin Islands Territorial Coral Reef Monitoring Program. Year 15 Annual Report](#). Version 1. 288 pp.
- Weinstein, D.K.**, Klaus, J.S., McNeill, D.F., 2015, [Syn depositional cementation in the reef 'Twilight Zone'](#), *Reef Encounters*, 30(2), 53-56.
- Weinstein, D.K.**, Klaus, J.S., Smith, T.B., 2015, [Habitat heterogeneity reflected in mesophotic reef sediments](#), *Sedimentary Geology*, 329, 177-187.
- Weinstein, D.K.**, Smith, T.B., Klaus, J.S., 2014, [Mesophotic bioerosion: Structural impact and changes with depth on U.S. Virgin Island deep reefs](#), *Geomorphology*, 222, 14-24.
- Weinstein, D.K.**, 2014, [Deep reef bioerosion and deposition: Sedimentology of mesophotic coral reefs in the U.S. Virgin Islands](#), Open access dissertations. Paper 1347, http://scholarlyrepository.miami.edu/oa_dissertations/1347.

MEETING, WORKSHOP, AND CONFERENCE PRESENTATIONS AND POSTERS

- Weinstein, D.K.**, Klaus, J.S., Smith, T.B., 2016, Past, present, and future mesophotic reef shelf accretion potential: A carbonate budget approach, 13th International Coral Reef Symposium, Honolulu, HI, June 19-24.
- Mizuyama, M., Ohara, T., **Weinstein, D.K.**, Fujii, T., McClelland, T., Montenegro, J., Shikiba, H., Asami, R., Yang, S.Y., Kawamura, I., Reimer, J.D., 2015, Research on the mesophotic coral reef ecosystems of the west coast of Okinawa Island, Okinawa Biological Conference, Naha, Okinawa, May 30.
- Weinstein, D.K.**, Klaus, J.S., Smith, T.B., 2014, Carbonate budgets of structurally distinct mesophotic reefs, Ocean Sciences Meeting, Honolulu, HI, Feb. 23-28.
- Weinstein, D.K.**, Klaus, J.S., Smith, T.B., Helmle, K.P., Marshall, D., 2013, Balance of constructive and destructive carbonate processes on mesophotic coral reefs, AGU Fall Meeting, San Francisco, CA, Dec. 9-13.
- Weinstein, D.K.**, Klaus, J.S., Smith, T.B., Reid, R.P. Kiene, W.E., 2013, Deeper reef bioerosion: Variability and implications of mesophotic reef modification in the U. S. Virgin Islands, Southeastern Section Geological Society of America 62nd Annual Meeting, San Juan, Puerto Rico, March 20-21.
- Ginsburg, R.N., Harrison, A., **Weinstein, D.K.**, Smith, T.B., 2012, Potential extent of mesophotic coral ecosystems across tropical North America, AGU Fall Meeting, San Francisco, CA, Dec. 3-7.
- Jones, M.G., **Weinstein, D.K.**, Klaus, J.S., Smith, T.B., 2012, Mesophotic bioaccretion: Variability in deep reef ecosystems, Undergraduate Research Creativity and Innovation Forum, University of Miami, Miami, FL, April 11.
- Kaiser, C.D., **Weinstein, D.K.**, Klaus, J.S., 2012, Sediments of mesophotic coral reefs, Undergraduate Research Creativity and Innovation Forum, University of Miami, Miami, FL, April 11.

Weinstein, D.K., Klaus, J.S., Smith, T.B., Reid, R.P. Kiene, W.E., 2011, Impact of bioerosion on structure of mesophotic coral reefs, 21st annual conference for the Society of Environmental Journalists, Miami, FL, Oct. 19-23.

Weinstein, D.K., Smith, T.B., Klaus, J.S., Reid, R.P. Kiene, W.E., 2011, Macroboring in the 'Twilight Zone': Spatial variability of biological alteration in mesophotic reefs, 7th International Bioerosion Workshop, Horta, Faial Island, Azores, Sept. 18-23.

Weinstein, D.K., Klaus, J.S., Smith, T.B., Kiene, W.E., 2011, Mesophotic Bioerosion: Variability in different deep reef habitats, ExxonMobil Student Scientist Technology Conference, Houston, TX, Jan.5-8.

Klaus, J., McNeill, D., **Weinstein, D.**, 2009, Pleistocene reef development and facies geometries of southern Hispaniola, CSL Annual Meeting, extended abstract vol., 27-30.

Yun, V., Leng, Y., **Weinstein, D.**, Lucas, L., Herman, W., Lee, C., Goldhar, J., 2004, Direct dispensing polymer waveguides for photonic device integration, Polymeric Materials Science and Engineering, vol. 91, 349-350.

INVITED GUEST SEMINARS, LECTURES, OUTREACH, AND COURSES

Weinstein, D.K., 2021, Coral rocks: What is reef geology and why does it matter to everyone, Ocean Rescue Alliance/ 1000 Mermaids Video Series, Virtual, June 1.

Weinstein, D.K., 2021, Accretion potential and habitat development of mesophotic coral reefs, University of South Florida, Department of Integrative Biology Seminars, Tampa, FL (virtual), March 4.

Weinstein, D.K., 2019, Do deep reefs accrete? Questioning a fundamental assumption of carbonate reef development, Florida Atlantic University Department of Geosciences Colloquium, Boca Raton, FL, March 1.

Weinstein, D.K., 2018, Reef geology (and mesophotic reefs), Introduction to the Marine System of the Gulf of Eilat course, Interuniversity Institute for Marine Sciences, Eilat, Israel, Dec. 27.

Weinstein, D.K., 2018, Scientific diving for marine geology, Introduction to Practical Oceanography course, Interuniversity Institute for Marine Sciences, Eilat, Israel, May 23.

Weinstein, D.K., 2017, Reef geology (and mesophotic reefs), Introduction to the Marine System of the Gulf of Eilat course, Interuniversity Institute for Marine Sciences, Eilat, Israel, Dec. 28

Weinstein, D.K., 2017, Can a modern deep reef accrete? Sedimentological development of mesophotic reefs in the U.S. Virgin Islands, Hebrew University of Jerusalem, Institute of Earth Sciences Seminar, Jerusalem, Israel, Dec. 6.

Weinstein, D.K., 2015, Marine geology: Carbonate analysis, The School of Business and Tourism at Miguel Contreras Learning Complex, Los Angeles, CA (virtual), Nov. 20.

Weinstein, D.K., 2015, Structural sustainability of U.S. Virgin Islands mesophotic reefs, Okinawa Underwater Photographic Society, Onna, Okinawa, Sept. 18.

Weinstein, D.K., 2014, Deep reef structure: Mesophotic coral ecosystem carbonate budget analysis, University of Maryland Guest Seminar, Department of Geology, College Park, MD, Nov. 24.

Weinstein, D.K., 2014, Geological applications of scientific diving, University of Miami Scientific Diving course (RSM500), Miami, FL, Nov. 12.

Weinstein, D.K., 2014, Building deep reefs: Carbonate budgets of mesophotic coral ecosystems, Nova Southeastern University Oceanographic Center Guest Seminar, Ft. Lauderdale, FL, Aug. 15.

Weinstein, D.K., 2013, Geological applications of scientific diving, University of Miami Scientific Diving course (RSM500), Miami, FL, Nov. 4.

Weinstein, D.K., 2013, Geology in the Twilight Zone: Sedimentary analysis of structurally distinct mesophotic reefs, Museum of Discovery and Science, Ft. Lauderdale, FL, Jan. 6.

Weinstein, D.K., 2012, Implications of bioerosion on the structural sustainability of mesophotic reefs, University of Miami Abess Center Guest Seminar, Miami, FL, March 1.

PEER REVIEWER

- *Coral Reefs, PLoS One, Matters, Mesophotic Coral Ecosystems of the World* (Chapter in book), Society for Sedimentary Geology Books, International Society for Reef Studies Student Blog editor

SOFTWARE

- ArcGIS, Coral CPCe, CoralXDS, R, Minitab, ImageJ, Adobe Suite (Photoshop and Illustrator), Microsoft Office

MARINE CERTIFICATIONS

- AAUS (scientific diver), Motorboat Operator Certification Course (MOCC), PADI (Open water), NAUI (Nitrox, advanced), TDI (advanced Nitrox, Decompression procedures), CPR certification (DAN)

PAST AFFILIATIONS

- GSA, SEPM, IAS, Sigma Xi, CSL, AAPG, AGU, NCORE, ICRS

ACTIVITIES

- Camp Airy – Counselor and assistant music director (Summer 2000-2003)
- Theta Chi Fraternity (University of Rochester) – Risk Manager
- Interests: Scuba Diving, Traveling, Rock climbing, Music (clarinet, saxophone, harmonica, guitar)

ACADEMIC REFERENCES

Dr. James Klaus

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