

BIOGRAPHICAL SKETCH

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NAME: Desmarais, John

eRA COMMONS USER NAME (credential, e.g., agency login): jdesmarais

POSITION TITLE: Computational Postdoctoral Fellow

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	START DATE MM/YYYY	COMPLETION DATE MM/YYYY	FIELD OF STUDY
Middlebury College, Molecular Biology and Biochemistry, Middlebury, VT	B.A.	09/2012	05/2016	Molecular Biology and Biochemistry
University of California Berkeley, Molecular and Cell Biology, Berkeley, CA	PHD	08/2016	08/2022	Molecular and Cell Biology
University of California, Berkeley, Berkeley, CA	Postdoctoral Fellow	10/2022	12/2022	Postdoctoral Fellow in the Savage lab
Cold Spring Harbor Laboratory, Cold Spring Harbor, NY	Postdoctoral Fellow	01/2023	present	Computational Postdoctoral Fellow in the Kinney Lab

A. Personal Statement**B. Positions and Honors****Positions and Scientific Appointments**

2023 -	Computational Postdoctoral Fellow, Cold Spring Harbor Laboratory, Kinney Lab, Cold Spring Harbor, NY
2022 - 2022	Postdoctoral Fellow, University of California, Berkeley, Savage Lab, BERKELEY, CA
2017 - 2019	Graduate student instructor, University of California, Berkeley, BERKELEY, CA
2016 -	Member, Phi Beta Kappa honor society, Middlebury, VT
2016 - 2022	Graduate student researcher, University of California, Berkeley, Savage Lab, BERKELEY, CA
2015 - 2015	Amgen Scholar, University of California, Berkeley, Joint Bioenergy Institute, Keasling Lab, BERKELEY, CA
2014 - 2016	Researcher, Middlebury College, Ward Lab, Middlebury, VT
2014 - 2014	Stowers Summer Scholar, Stowers Institute for Medical Research, Matt Gibson Lab, Kansas City, MO
2013 - 2013	Researcher, Middlebury College, 2013 STEM Innovation Program, Middlebury, VT
2011 - 2012	Intern, University of Washington Medical School, Neitz Color Vision Lab, Seattle, WA

Honors

2013 - 2016	College Scholar, 6 semesters, Middlebury college
2017	The 27th Annual Western Photosynthesis Conference travel award , Western Photosynthesis conference
2016	Elbert C. Cole '15 Memorial Fund Prize, Middlebury College, Department of Biology

2016	Summa cum laude, Middlebury College
2016	High Honors, Middlebury College Department of Molecular Biology and Biochemistry
2016	Inducted Phi Beta Kappa honor society, Middlebury College
2015	Dean's List, spring semester, Middlebury College

C. Contribution to Science

D. Scholastic Performance

Scholastic Performance

YEAR	COURSE TITLE	GRADE
MIDDLEBURY COLLEGE		
2012	BIOL 0145 Cell Biology and Genetics	A-
2012	FYSE 1175 The Game of Go	A
2012	MATH 0122 Calculus II	A
2012	BIOL 0145 Cell Biology and Genetics Lab	CR
2013	INTD 0500 Independent Study	A
2013	BIOL 0140 Ecology and Evolution	A-
2013	ENAM 0270 South Asian African Carib Lit	A
2013	PHYS 0110 Electricity & Magnetism	A-
2013	RELI 0208 Sociology of American Religion	A-
2013	CHEM 0107 Advanced General Chemistry	A
2013	CLAS 0132 History of Rome	A-
2013	ECON 0155 Intro Microeconomics	A
2013	PHYS 0201 Relativity And Quantum Physics	A-
2013	CHEM 0107 Advanced General Chemistry Lab	CR
2013	PHYS 0110 Electricity & Magnetism Lab	CR
2013	BIOL 0140 Ecology and Evolution Lab	CR
2014	CHEM 0241 Organic Chemistry I	A
2014	CHEM 0242 Organic Chemistry II	A
2014	CMLT 0333 Dealing With The Devil	A
2014	CSCI 0150 Computing for the Sciences	A
2014	RUSS 0122 The Russian Mind (in English)	A-
2014	BIOL 0314 Molecular Genetics	A
2014	BIOL 0500 Independent Study	A
2014	CHEM 0322 Biochemistry of Macromolecules	A
2014	CSCI 0201 Data Structures	A
2014	BIOL 0314 Molecular Genetics Lab	CR
2014	CHEM 0242 Organic Chemistry II Lab	CR
2014	CHEM 0241 Organic Chemistry I Lab	CR
2015	INTD 1014 American Sign Language	A
2015	BIOL 0211 Biostatistics	B+
2015	BIOL 0331 The Genetics of Cancer	A-
2015	BIOL 0500 Independent Study	A-
2015	CSCI 0202 Computer Architecture	A-
2015	CHEM 0425 Biochemistry Of Metabolism	A
2015	CSCI 0200 Math Foundations of Computing	A
2015	CSCI 0312 Software Development	A

YEAR	COURSE TITLE	GRADE
2015	MBBC 0700 Senior Research	A
2015	BIOL 0211 Biostatistics Lab	CR
2015	BIOL 0331 The Genetics of Cancer Lab	CR
2016	MBBC 0700 Senior Research	A
2016	BIOL 0324 Bioinformatics and Genomics	A
2016	CSCI 0302 Algorithms and Complexity	A
2016	CSCI 0314 Operating Systems	A
2016	MBBC 0701 Senior Thesis	A
2016	BIOL 0324 Bioinformatics & Genomics Lab	CR
UNIVERSITY OF CALIFORNIA BERKELEY		
2016	MCELLBI 200A - Fundamentals of Molecular and Cell Biology	A
2016	MCELLBI 200B - Fundamentals of Molecular and Cell Biology	A
2016	MCELLBI 280A - Selected Topics in Molecular and Cell Biology	S
2016	MCELLBI 291A - Introduction to Research	A
2016	MCELLBI 293A - Research Seminar	S
2017	MCELLBI 206 - Physical Biochemistry	A
2017	MCELLBI C212A - Chemical Biology I - Structure, Synthesis and Function of Biomolecules	A+
2017	MCELLBI C212B - Chemical Biology II - Enzyme Reaction Mechanisms	A
2017	MCELLBI C212C - Chemical Biology III - Contemporary Topics in Chemical Biology	A-
2017	MCELLBI 291B - Introduction to Research	A
2017	MCELLBI 293C - Responsible Conduct, Rigor and Reproducibility in Research	S
2017	MCELLBI 295 - Careers for Life Sciences Ph.D's	S
2017	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2017	MCELLBI 292 - Research	A
2017	MCELLBI 380 - Teaching of Molecular and Cell Biology	S
2018	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2018	MCELLBI 292 - Research	A
2018	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2018	MCELLBI 292 - Research	S
2018	MCELLBI 294 - Current Topics in Biomedical Sciences	S
2019	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2019	MCELLBI 292 - Research	A
2019	MCELLBI 380 - Teaching of Molecular and Cell Biology	S
2019	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2019	MCELLBI 290 SEM A02 - Graduate Seminar	A+
2019	MCELLBI 290 SEM D01 - Graduate Seminar	A+
2019	MCELLBI 292 - Research	A
2019	MCELLBI 294 - Current Topics in Biomedical Sciences	S

YEAR	COURSE TITLE	GRADE
2020	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2020	MCELLBI 290 - Graduate Seminar	A
2020	MCELLBI 292 - Research	A
2020	MCELLBI 293R - Responsible Conduct of Research Refresher	S
2020	MCELLBI 295 - Careers for Life Sciences Ph.D's	S
2020	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2020	MCELLBI 292 - Research	A
2021	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2021	MCELLBI 292 - Research	A
2021	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2021	MCELLBI 290 - Graduate Seminar	A+
2021	MCELLBI 292 - Research	A
2022	MCELLBI 218X - Research Review in Biochemistry and Molecular Biology: Chemical Reactions of Metabolism	S
2022	MCELLBI 292 - Research	A
2022	MCELLBI 294 - Current Topics in Biomedical Sciences	S

For all Middlebury College undergraduate level courses, The scale is from A to F (with no A+ or F-) and passing grades are C- or higher. In this scale an A is a 4.00, an A- is a 3.67, and a B+ is a 3.33. A CR indicates receiving credit for a lab course, lab courses are not given an independent grade, as their course work is graded as part of the associated lecture course.

For all University of California Berkeley graduate level courses, the scale is from A to F (A+ is awarded as a mark of achievement but both A+ and A are counted as 4.0 for GPA calculations) and passing grades are B- or higher. In this scale A+ is a 4.0, A is also 4.0, and an A- is a 3.7. S indicates a passing grade (B- or higher) in a course graded on a Satisfactory/Not Satisfactory grading scheme, courses graded on this scheme are not included in GPA calculations.