OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

Follow this format for each person. DO NOT EXCEED FIVE PAGES.

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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.)*

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| --- | --- | --- | --- | --- |
| 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

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| --- | --- |
| 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 | | |
| 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 |
| 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 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.